Manufacturers Record

A WEEKLY SOUTHERN INDUSTRIAL, RAILROAD AND FINANCIAL NEWSPAPER

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Manufacturers Record.

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BALTIMORE, APRIL 6, 1911.

SOUTHERN MANUFACTURING.

Southern manufacturing is rapidly approaching an annual production to the value of \$3,000,000,000. That sum is more than twice the value of the products of Southern manufacturing line are given in the following table, comparing the capital invested in Southern factories and the value of their products in five Southern States in 1900, 1904 and 1909;

If the proportion was maintained in 1900 the total in the South was \$2,389. 400,000.

If the rate of increase in the value of products in the five States between 1904 and 1909, which was 33.5 per cent., was the average rate of increase for the whole South, the total value in 1909 was \$2,385,800,000.

These figures, it must be remembered. deal with the value of factory products only, and do not include the value of hand trades, building trades and neighborhood industries, which constituted about 16 per cent. of the total value of manufactured products in 1900. If that proportion was maintained, the total in 1909 was about \$2,850,000,000, and fifteen months have passed since the cen-

THE NATIONAL MARKET GARDEN.

Cabbages are being shipped to North ern markets from the lower Rio Grande Valley in Texas at the rate of twenty express carloads a day. Large ship ments of Bermuda onions have already been made from Laredo and other points in the same State. Peppers, egg-plants, tomatoes, lettuce, celery, cauliflower and beans have been moving from Flor ida for some time, and the early straw berries are now on the move. Potatoes and other vegetables from Florida beets, carrots, turnips, parsley, radishes etc., from Louisiana and Mississippi, and asparagus from Georgia, Carolina and Alabama are upon the Cincinnati markets, and Boston is also enjoying in 1900. Hints of development in this the first fruits of the kind from the South. The business of that section of supplying the country with early fruits and vegetables to the annual value of about \$100,000,000 is well under way for 1911, and an interesting sidelight upon

Factory Progress, 1900-1904.

	Cai	ital.—	Products		
States.	1900.	1904.	1900.	1904.	
Alabama Florida Louislana Maryland North Carolina	25,682,000 100,875,000 149,155,000	\$105,383,000 32,972,000 150,811,000 201,878,000 141,001,000	\$72,110,000 34,184,000 111,398,000 211,076,000 85,274,000	\$109,170,000 50,298,000 186,380,000 243,376,000 142,521,000	
- Total	\$401,161,000	\$632,045,000	\$514,042,000	\$731,745,000	

Factory Progress, 1904-1909.

	Car	oital.——	Prod	lucts.
States.	1904.	1909.	1904.	1909.
Alabama Florida Louisiana Maryland North Carolina.	32,972,000 150,811,000 201,878,000	\$173,479,000 65,128,000 221,806,000 251,237,000 217,183,000	\$109,170,000 50,298,000 186,380,000 243,376,000 142,521,000	\$146,431,689 72,724,689 223,928,000 317,576,000 216,614,000
Total	\$632,045,000	\$928,833,000	\$731,745,000	\$977,267,000

in factories in these States increased from \$404,161,000 to \$632,045,000, or by \$227,884,000, equal to 56.3 per cent.. and the value of their products from \$514,042,000 to \$731,745,000, or by \$217,-703,000, equal to 42.3 per cent. In the next five years the increase in capital was from \$632,045,000 to \$928,833,000, or by \$296,788,000, equal to 46.9 per cent.; and in the value of products from \$731,745,000 to \$977,267,000, or by \$245,-522,000, equal to 33.5 per cent.

The value of products in the five States in 1904 was 40.9 per cent, of the

Between 1900 and 1904 the capital its extent is thrown by a list of the fruit, vegetable and melon growers and dealers in the territory tributary to the Southern Railway and its affiliated lines, published by the land and industrial department of the system, in charge of Mr. M. V. Richards, This publication gives the names of about 2500 persons actively interested in the growing of fruits and vegetables in Virginia, the Carolinas, Georgia, Alabama, Mississippi, Kentucky, Tennessee, Northrn Florida and portions of Southern Illinois and Indiana, with their postoffice addresses, the character of their total value, \$1,787,976,000 in the South. products, to some extent the acreage their shipping points, of which 460 are in the Southern States mentioned.

Mention of the products that are shipped annually from these Southern points is suggestive of the wide range. The products include Irish potatoes, sweet potatoes, peaches, pears, peanuts, strawberries, beets, beans, plums, peas, squashes, melons, raspberries, okra, sugar-cane, asparagus, cabbages, figs, tropical fruits, snaps, pecans, lettuce, apples, turnips, cucumbers, cherries, grapes, celery, onions, cantaloupes, nursery stock, etc., and they come from little tracts of from one to a dozen acres, or from larger tracts of from 100 to 600 acres or more. Running through the tabulated statement, filling more than eighty pages of this pamphlet, one cannot fail to be impressed with the great variety of fruits and vegetables in the South, the steadily increasing number of persons engaged in growing them and the many opportunities in that line for success in the orchards, the truck lands and the vegetable gar dens in the South. The circulation of this pamphlet is but a part of the unremitting, intelligent work that Richards has been doing for the development of the South in his twenty odd years' connection with the Southern

A GLANCE AT RAILROAD BUILDING.

Since the beginning of this year there have been reported in the columns of the Manufacturers Record twentyfour wholly new railroad enterprises in the South, which propose to build a total of about 2400 miles of line. Including Oklahoma and Missouri, two more companies are added, but they alone are proposing to build 1300 miles, which would make the entire amount projected 3700 miles. These companies are distributed thus: Three in Alabama, one in Arkansas, three in Florida, five in Georgia, one in Kentucky, one in Missouri, three in North Carolina, one in Oklahoma, three in South Carolina, one in Tennessee, two in Texas, one in Virginia and one in West Virginia, making altogether twenty-six new railroads planned.

If this degree of activity continued the year 1911 would witness something like twelve or fifteen thousand miles of new railroads projected for the States under consideration, but it is hardly probable that so much construction will be planned and much less will be exe-Nevertheless, considerable of cuted. that which is proposed will be realized in completed lines, and the activity of promoters during the first three months of this year deserves attention. Some of the work projected demands special notice. One piece is that of the Kansas City & Memphis Railroad Co., which proposes to construct a line 350 miles long across Arkansas. Another is the Atlantic, Okeechobee & Gulf, which, as heretofore noted, aims to build a line spanning the peninsula of Florida from in Texas, besides others too numerous

controlled by them and the names of Tampa on the west coast to Miami on east, with several the branches, making altogether for this one company about 600 miles of line. The Gulf, Florida & Alabama Railway is another noteworthy plan, which is for the construction of a railroad from Pensacola northward through Florida and Alabama for 300 miles. The Atlantic, Wayeross & Northern is a Georgia enterprise for a road 200 miles long across the State from St. Mary's via Waycross to a connection with the Georgia Southern & Florida Railway. largest of all the plans reported, however, is that of the Colorado, Oklahoma & New Orleans Railroad Co., which proposes to build a main line from Trinidad, Colo., to New Orleans, about 1200 miles, but branches may swell the total to 1700 miles, although that is indefinite. The Piedmont & Northern, which is the name of the company building the important electric interurban railway in the Carolinas for the Messrs, Duke, who dominate it, has been recently mentioned in detail, and demands notice here only because it is a recent incorporation and work upon the line has just begun.

> Although they were not lately chartered, the starting of construction recently upon the Buckhannon & Northern Railroad and the Sandy Valley & Elkhorn Railway compels mention here as being among the interesting accomplishments during the first quarter of 1911. Each is an important coal railroad, one to develop West Virginia lands held by the Little Kanawha syndirate and the other to open up rich coal territory in Kentucky for the Consolidation Coal Co. The Florida East Coast Railway has also lately begua construction of its line from Maytown to Lake Okeechobee, a remarkable piece of enterprise which will open for use rich farming and fruit lands in the Everglades region of Florida. Chattanooga Southern—now called the Tennessee, Alabama & Georgia-has also started work upon an extension which is to make a short route from Chattanoga to Atlanta. It furthermore proposes to build a line from Gadsden to Birmingham. Contract has also been let for much of the St. Louis & Kansas City Electric Railway, a highspeed line to connect the two cities named.

There may also be mentioned s of the more conspicuous pieces of railroad work under way and on which construction is being pushed. They include the Western Maryland extension to Connellsville, the Florida East Coast extension to Key West, the Pensacola and Mobile Railway, John T. Cochrane's two lines in the western part of Alabama, the extension of the Lexington & Eastern Railway in Kentucky, the Wasioto & Black Mountain Railroad in the same State, the Harriman & Knoxville line in Tennessee, the Memphis, Dallas & Gulf in Arkansas and the Port Bolivar Iron Ore Railway

to name. It appears too, that the longtalked-of electric lines from Fort Worth to Cleburne, Tex., and from Dallas to Waxahachie in that State are likely to be built, steps having been taken by important interests to construct them.

Judging by the facts here presented, and many others of similar tenor, the opinion may be expressed that 1911 will see the construction in the South and Southwest of a liberal amount of new railroad, the record of which will be in pleasing contrast to the small amounts noted for the last two calendar vears.

POINTERS ON SOUTHERN PROGRESS.

Proposals for hids on improvements in divers parts of the South under municipal, county or State auspices alone to the number of more than one hun dred and twenty-five were announced in March in the Construction Department of the Manufacturers Record That was at the rate of at least four The proposals, definite state ments of work to be done or supplies of various kinds desired, constituted less than one-fifth of the 663 items mention ed during the month in the Machinery Proposals and Supplies Wanted columns of the Construction Department. The proposals are those of officials in cities, towns, counties and States, and do not include offers of the kind from representatives of the several departments of the National Government, corporations, contractors or other individuals The range of activities contemplated in them, the range both as to localities interested and as to the character of the undertakings, reflecting the purpose of the South to spend money liberally in public improvements, is indicated in the following summary of the distinct lines upon which the proposals bear:

Bridges.—Danville, Va.; Holmes liss.; Jefferson county, Ala.; I Miss.; Jefferson county, Ala.; Lawrence county, Miss.; Monroe county, W. Va.; Okla-City, Okla.; Ouchita county, county, Va.; Richland county, S Page county, Va.; Richland county, S. C.; St. John county, Fla.; Spotsylvania county, Va., and Wetzel county, W. Va.

va., and Wetzel county, W. Va. Electric Light or Power.—Baltimore, Md.; Galveston, Tex.; Jackson, Tenn.; Jackson-ville, Fla.; Kansas City, Mo.; Newton, Miss.; Richmond, Va., and Troy, Ala. Fire Department.—Baltimore, Md.; Dallas, Tex.; Kansas City, Mo., and Memphis, Tenn. Leyees.—Desha county, Ark.; Fast Carrell.

s.—Desha county, Ark.: East Carroll

Levees.—Desha county, Ark.; East Carroll and Madison parishes, La.
Roads.—Bexar county, Tex.; Caroline county, Md.; Dallas county, Ala.; Dallas county, Tex.; DuVal county, Fla.; Elmore county, Ala.; Fayette county, Ky.; Galveston county, Tex.; Grenada county, Miss.; Hamilton county, Fla.; Harris county, Tex.; Lauderdale county, Miss.; Monroe county, W. Va.; Oktiboha county, Miss.; Oktlahoma City, Okla.; Putnam county, Tenn.; Rappahannoek county, Va.; Richland county, S. C.; Russell county, Ala., and Talbot county, Md.

Sewers or Drains.-Baltimore, Md.; eron, Tex.; Easton, Md.; Holdenville, Okla.; Louisville, Ky.; Meridian, Miss.; Mounds-ville, W. Va.; Muskogee, Okla.; Norfolk, Va.; Oklahoma City, Okla.; Rock Hill, S. C., and Sparta, Ga

Streets,-Atlanta, Ga.; Baltimore city, Md.; Streets.—Atlanta, GB.; Baltimore city, Md. Baltimore county, Md.; Beaumont, Tex. Birmingham, Ala.; Chattanooga, Tenn.; Columbia, S. C.; Columbus, Miss.; Dublin, Ga. Elizabeth City, N. C.; Dallas, Tex.; Fayetteville, N. C.; Fort Worth, Tex.; Gadsden. ctteville, N. C.; Fort Worth, Tex.; Gadsden, Ala.; Galveston, Tex.; Hugo, Okla.; Jackson, Tenn.; Knoxville, Tenn.; Latta, S. C.; Memphls, Tenn.; Newellton, La.; Newport News, Va.; Oklahoma City, Okla.; Portsmouth, Va.; Richmond, Va.; Troy, Ala.; Wilmington, N. C., and Windsor, Va.

Water-works,-Caldwell, Tex. ; Dallas, Tex. ; Electra, Tex.: Gadsden, Ala.: Harrisot county, Miss.: Kansas City, Mo.: Jacksboro Tex.: Lufkin, Tex.: Morehead City, N. C. Tenn.: Norfolk, Va.: Richmond Nashville. Augustine, Tex.; Sparta, Ga., and

Miscellaneous.—Automobiles for fire de-partment, Baltimore, Md.; clock and bell

system, District of Columbia; coal supplies Baltimore, Md.; ranges and equipment, Dis-trict of Columbia; dam and spillway, East Tex.; drainage, 437,240 cubic yards. I county, N. C.; dredging, harbou redell county, N. C.; dredging, harbor ork, Baltimore, Md.; electric elevator for sunty courthouse, Dallas, Tex.; garbage-Iredell county courthouse, Dallas, Tex.; garbage-disposal plant, Louisville, Ky.; heating sys-tem, District of Columbia; laboratory equipment, District of Columbia, 1808-2, ment, Little Rock, Ark.; oil tanks and con-portions. District of Columbia, and oil-burn ment. District of Columbia: laundry equip ing equipment, Houma, La.

These proposals were less than one fortieth of the total number of items mentioned in the Construction Department in March, dealing with hundreds of industrial and developmental enterprises calling for materials, machinery, money and men as a part of the steady growth of the South in manufacturing. mining, agriculture, lumbering, railroad building and other lines increasing its trade and commerce, and the March items in the department of fresh news about Southern progress were about 38 per cent, of the items mentioned since the beginning of 1911.

A survey of the material published by Construction Department during the three months of this year shows a total of 13,296 items-a slight increase over the corresponding period of 1910. As usual, the presentation of these items has been of immense interest to a vast number of people engaged in the varied and multiplied business interests of the South and neighboring sections. The extent, variety and quality of the work is evidenced by the statistics of the following condensed table:

opsis of Construction Department, Manu Pacturers Record, covering the months of January, February and March, 1911.

otal	of	ite	ns	to	A	ril	1			13,
Ja	nu	ry								3,814
F	bri	ar								4,408
M	arc	1								5,074
Ma	ich ille:	iner	y.	Pr	ope	sal	s a	nd	Sup-	1,721
111	THE	ul.	effe							512
Divi	ded	in	de	isi	1 10	e 6	Mo	me .		

	Clayworking Plants	76
	Coal Mines and Coke Ovens	149
	Concrete and Cement Plants	24
	Cotton Compresses and Gins	81
	Cottonseed-oil Mills	32
	Prainage and Irrigation	52
	Electric Light and Power	293
	Fertilizer Factories	50
	Flour, Feed and Meal Mills	62
	Foundry and Machine Plants	150
	Gas and Oil Developments	131
	Ice and Cold-storage Plants	127
	Iron and Steel Plants	14
	Land Developments	302
	Land Developments	
	Lumber Manufacturing	307
ı	Metal-working Plants	34
1	Mining	152
Į	Miscellaneous Construction	116
	Miscellaneous Enterprises	592
	Miscellaneous Factories	810
	Rallway Shops, Terminals, Round-	
	houses, Sheds, etc	30
	Road and Street Work	526
	Sewer Construction	226
	Telephone Systems	137
	Textile Mills	108
	Water-works	351
	Woodworking Plants	210
	Railwans.	-
		676
	Steam	010

Woodworking Plants	210
Railwans,	
Steam	67
Street	100
Buildings,	
Apartment-houses	17
Association and Fraternal	17
Bank and Office	30
Churches	37
City and County	20
ourthouses	8
Dwellings	1.22
Government and State	8
Hotels	27
Miscellaneous	25
Rallway Stations	13
Schools	55
Stores	71
Theaters	8
Warehouses	173

Burned, etc.....

The Machinery, Proposals and Sup-canted list includes 50 foreign wants, r-nting the countries of Canada, Cuba, 10, Argentina, Bolivia, Venezuela, He is, England, Holland, Spain, Gern-aly, Russia, Japan, Turkey, India

12.296

A recent review in our columns of these published statements revealed the fact that within the first two months of the year we noted hundreds of industrial and building projects, with capitalization varying from a quarter of a million to more than a million dollars. Included in these were viaduct and bridge construction, coal developments, irrigation and drainage work, cement plants, power-plant construction, development of oil and gas properties, iron and steel, foundry and metal working; mining progression colonization and other land propositions, railroad shops, municipal and county improvements, including water-works, sewers, roads and paying. In the list there are also many buildings erected by Government, State, munipical or private owners

The foregoing, though, includes but a modest proportion of the great number of widely-diverse enterprises which were recorded by the Construction Department in the Daily Bulletin and weekly by the Manufacturers Record during those two months and in the following month of March. Not all of these enterprises are of such great magnitude as those above mentioned. Thousands are of more modest proportions in regard to capitalization and consequent results expected. But all alike show confidence and progress. And speaking of progress, it is significant to note that while the entire number of items published in January aggregated a few less than 4000, the February list went above that number, and the record for March shows more than 5000

Such progressiveness is indeed interesting and significant when into consideration is taken the variety, extent and general value of the projects which, from beginning to completion, we en deavor to present to the great world of people concerned—the manufacturers and dealers, engineers and builders, investors and inventors—all those whose interests are subserved by such knowledge. As a subscriber to the Manufac-TURERS RECORD recently assured us, "It is worth while for people in our busines to look carefully over every page of it." And many pages are required for the presentation of the Construction Department work, covering, as it does, all available information concerning the vast improvements and new industrial projects now going on and contemplated in the South, such as the great road improvements, development of the cement industry, installation of immense waterworks and sewerage systems and other municipal betterments; drainage and irrigation of large tracts of land. thereby opening up fresh sections for homes, farming, fruit-growing, etc.; establishing of sugar refineries, lumber mills, various woodworking factories and turpentine plants; factories for the manufacture of new mechanical devices, together with many other upbuilding enterprises along industrial, building and general business lines. These we have noted in their various progressive stages, in many instances giving several notices to one new project or betterment

We continue to note the destruction by fire of plants and important structures, since these are usually reconstructed, while new or rebuilt machinery for the plant is necessitated.

The 1721 items of the Machinery. Proposals and Supplies Wanted columns have called for definite and specific information and prices on a large and varied enumeration of machines, proposal bids and supplies. A number of these have come from foreign readers and subscribers. That these published requests are efficient is often announced to us in such positive language as that used by a correspondent of a few days since, who wrote: "I have never yet failed to get anything I wanted in my line through your most valuable journal."

AMERICAN MINERAL PRODUCTS

Mineral products of the United States in 1909, included among them being some primary manufactures such as pig-iron and articles made of clay, had an aggregate value of \$1,885,925,187, an increase of \$778,893,795, or 70 per cent., over the value \$1.107.031.392 in 1900. While the 1909 value was an increase of something more than \$290,000,000 over that of 1908, it was still \$185,000. 000 less than the record total, \$2,071. 607,964 of 1907 and \$18,000,000 less then the 1906 total, \$1,904.007.034. Comparison of products in 1900 and 1909 is made in the following table:

made in the ronow	ma thore.	
Mineral.	1909.	1900,
Coal	\$554,902,624	\$306,688,164
Pig iron	419,175,000	259,944,00
Clay products	166,321,213	96,212,34
Copper	142,083,711	98,494,039
Petroleum	128,248,783	75,989,313
Gold	99,673,400	79,171,00
Stone	71.345,199	36,970,777
Stone Natural gas	63,206,941	23,698,671
Cement	52,797,973	13,283,583
Lead	30,460,168	23,561,689
Silver	28,455,200	35,741,10
Zinc	24,864,300	10,654,193
Sand. etc	17,173,615	
Lime	13,786,269	6,797,49
Phosphate rock	10,772,120	5,359,248
Salt	8,343,831	6,944,603
Mineral waters	6,894,134	6,245,172
Aluminum	6,575,000	1,920,000
Zine oxide	6 156 755	2 667 91
Gypsum	6,156,755 5,906,738	3,667,21 1,627,203
Slate	5,441,418	4,240,466
Coloboro	4,432,066	88,100
Sulphur		644,089
Mineral paints	2,419,710	
Danas.	1.938,273 1,534,365	415,958
Borax Antimon. lead	1,034,390	1.018,251
Antimon, lead	1,231,019	
Glass sand	1,163,375	*****
Sand-lime brick	1,150,580	E 40 001
Pyrite	1.028,157	749,991
Quicksilver Talc, soapstone	888,710	1,302,586
Tale, sompstone	862,002	383,541
Antimony	0.000.00	837,896
Frindstones	804,051	710,020
Bauxite	679,447	89,676
Tungsten ores	614,370	11,040
Precious stones	534,380	233,170
Feldspar	401,788	180,971
raic, abrous	359,957	499,500
Falc, fibrous Graphite	345,509	197,579
Fuller's earth	301,604	67,505
Fluorspar	291,747	94,500
Mica	280,529	147,960
Quartz Manganif, ores	249,466	86,351
Manganif. ores	215,925	174,087
Histories, etc	214.019	174,087
Barytes	198,561	188,689
'eat	174,269	*****
Frinoli, etc	122,348	24.207
larnet	102,315	123,475
Bromine,	92,735 (5,282	140,790
Thorlum, etc	15,282	48,805
Ashestos	62,603	16,310
Arsen, oxide	52,946	
Marls	45,053	30,000
Abrasive quartz		40,705
lagnesite	37,860	19,333
Hillstones	35,333	32,858
Hillstones	33,439	
	19,675	100,289
orundum, etc	18,185	102,715
latinum	15,950	2,500
'obalt oxide	*******	11,648
Intile etc	10,000	1,300
'bromic ore	8,300	1, 400
uningan, ores, 'orundum, etc 'Intinum 'obalt oxide 'tutile, etc 'hromic ore 'Intinum	4.832	
Cickel	*****	3,886
Sickel Inspecified	300,000	1,000,000
***	charlen and	A commission of

It is interesting to note that the conbined values of coal, pig-iron, clay products and petroleum equal nearly 75 per cent, of the total value of all mineral products in 1909; that the value of gold is \$42,000,000 less than the value of copper and only \$28,000,000 greater than the value of stone, and that the value of cement is \$24,000,000 greater than the value of silver. Suggestive of certain industrial developments, based upon the mining industry, are the increases between 1900 and 1909 in the value of clay products from \$96,212,345 to \$166,321,213, or by \$70,108,868, equal to 72 per cent.; in petroleum from \$75. 089,313 to \$128,248,783, or by \$52,259, 470, equal to 68 per cent.; in natural gas from \$23,698,674 to \$63,206,941, or by \$39,508,267, equal to 166 per cent.: in cement from \$13,283,581 to \$52,797. 973, or by \$39,514,392, equal to 297 per cent.: in phosphate rock from \$5,359,248 to \$10,772,120, or by \$5,412,872, equal to 101 per cent.; in zinc from \$10,654,196 to \$24,864,300, or by \$14,210,104, equal

Total

.....\$1,885,925,187 \$1,107,031,392

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113

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to 133 per cent.; and in sulphur from \$88,100 to \$4,432,066.

Value figures are not, however, an absolute index to the volume of mineral production. For instance, the \$554,902,-624 for coal in 1909 is the value of 452,118,506 tons of the bituminous and anthracite product, an average of \$1.22 a ton, while the \$306,688,164 in 1900 was the value of 263,537,465 tons, averaging \$1.17. The 1909 value of pig-iron, \$419,175,000, represented 25,795,471 tons an average of \$16.25 a ton, while the \$259.914.000 in 1900 were the value of 13,789,242 tons, an average of \$18.85 a The value of iron-ore increased between 1900 and 1909 from \$66,590,504 to \$110,290,596, or by about 66 per cent.. although production increased from 27. 553,161 tons to 51,294,271 tons, or by nearly 87 per cent. In 1907, the record year as to the value of mineral production, coal averaged \$1.30 a ton, iron-ore \$2.55 a ton and pig-iron \$20.55 a ton. The financial disturbances of the winter of 1907-1908 were still strongly manifest in the mineral production values of 1909, and in no respect, perhaps, more notably than in the decrease between 1907 and 1909 in the average value of a ton of pig-iron from \$20.55 to \$16.25. At present other influences than those of the depression of three years ago are reflected in more or less balting in the mineral industry, and it may be expected that there will be ups and downs in the years to come. But. there must be a steady general increase in the total value of mineral products and it is probable that, even though there may not be at once a marked increase in price, there will be, under the spur of intelligent application of the theories of practical conservation, increasing profits in the main for mineral producers.

SOUTHERN CITIES' FACTORIES.

According to preliminary figures of the Census Bureau, the capital invested in factories at Pensacola, Fla., not including steam laundries, increased between 1904 and 1909 from \$2,147,000 to \$2,-164,000, or by 1 per cent., and the value of products from \$1,937,000 to \$1,963,000, or by 1 per cent. Through the number of establishments increased from 39 to 60, the number of salaried officials and clerks increased from 120 to 122, while the average number of wage-earners employed decreased from 1206 to 961.

In the five-year period there was an increase in capital in factories at Key West from \$1,512,000 to \$1,911,000, or 26 per cent., though there was a decrease in the value of products, traced to the cigar and cigarette industry, from \$4,254,000 to \$3,965,000, or 7 per cent. The number of salaried officials and clerks decreased from 218 to 190, and of the average of wage-carners from 2466 to 2431.

At Tampa there were noteworthy increases in every item, the capital increasing from \$6,011,000 to \$11,610,000, or 93 per cent.; the value of products from \$11,264,000 to \$17,653,000, or 57 per cent.; salaried officials and clerks from 531 to 724, and average number of wage-earners from 5831 to 8996.

Between 1904 and 1909 capital invested in factories in Cumberland, Md., decreased from \$4,139,000 to \$4,095,000 and the value of products from \$4,595,000 to \$4,534,000. In the same period the capital invested in factories at Hagerstown, Md., increased from \$2,194,000 to \$2,970,000 and the value of products from \$3,027,000 to \$3,197,000.

Kansas City, Mo., increased its capital in factories from \$32,127,000 to \$42,729. White Sulphur Springs June 19 and 20.

000, and the value of products from \$35,573,000 to \$54,705,000. There was an increase in the average number of wage-earners from 11,039 to 14,643, and in the number of establishments from 612 to 902.

At St. Joseph, Mo., the capital in factories increased from \$9,734,000 to \$12,038,-000, and the value of products from \$11,-574,000 to \$17,626,000. The number of establishments increased from 219 to 261, and the average number of wage-earners from 4063 to 5389.

TEXAS.

No better record of the rapid making of Texas history can be had than the annual publication of the Texas Almanac and State Industrial Guide, issued by the Galveston-Dallas News. The 1911 edition. which carries with it a detailed railroad and county map, with brief descriptions of the 245 counties of the State, containes, in addition to a mass of facts dealing with government, special chapters on education, transportation and commerce, factories, public domain, natural and geographic con ditions, drainage and irrigation, agricultural resources, horticultural achieve ments, live-stock breeding, immigration fish and oyster industry, etc., written by experts in their respective fields. These chapters deal not with glittering generalities, but with definite statements as to the many resources of Texas with which prospective inspectors and homeseeker would naturally wish to be acquainted. It is a splendid guide to the largest State in

CANADIAN MINERALS.

Mineral production in Canada in 1910 reached a total value of \$105,040,958, of which \$49,169,826 represented metallic products and \$55,871,132 non-metallic products. The values by products were: 8ilver, \$17,106,604; nickel, \$11,181,310; gold, \$10,224,910; clay products, \$7,600,000; copper, \$7,200,463; cement, \$6,414,315; stone, \$3,499,772; pig-iron, \$1,651,321; natural gas, \$1,312,614; lead, \$1,237,032; lime, \$1,131,407; gypsum, \$939,838; salt, \$409,624; petroleum, \$388,550, and miscellaneous, \$2,445,890.

THE COTTON MOVEMENT.

According to the report of Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, the amount of cotton brought into sight in the first seven months of the present season was 11,019, 127 bales, an increase over the same period last season of 1,625,701 bales. The exports were 6,634,214 bales, an increase of 1,681,272 bales. The takings were, by Northern spinners, 1,761,595 bales, an increase of 19,247 bales; by Southern spinners, 1,665,037 bales, a decrease of 6759 bales.

FOR THE SOUTH.

In devoting practically all of the reading pages in its issue of April 6 to succinct but comprehensive messages from the Governors of Southern States, to inspiring comments by half a dozen representative editors of daily journalism in that section and to other articles bearing upon distinctive features of Southern material development, strikingly illustrated by groups of half-tone engravings, Leslie's Weekly of April 6 has made an important contribution to the prosperity of the South.

The Commercial Club of Okmulgee, Okla., John A. Belford, secretary, is circulating an artistic pamphlet illustrating residential, municipal and industrial activities in the city.

The annual meeting of the West Virginia Coal Mining Institute, which has a membership of about 500, will be held at White Sulphur Springs June 19 and 20.

Henry M. Flagler's Work in and for Florida.

[Editorial Correspondence Manufacturers Record.]

St. Augustine, Fla., March 31.

"The man who saw a wilderness and out of it created an empire; who saw a desert and out of it made a garden spot," might be said of Henry M. Flagler, one of the greatest developing geniuses of this or any other age.

A quarter of a century ago Mr. Flagler saw in the East Coast of Florida a country without transportation facilities and without material development of any kind. It was the most discredited part of the who State in the estimation of the general public. He turned his attention to the building of a railroad to open up that region and to the construction of magnificent hotels in order to furnish an incentive to the traveling public to visit Florida. With unfaltering faith, and despite the skepticism of even his closest friends, who regarded his investment of millions and tens of millions of dollars in the East Coast as the expenditure of a visionary enthusiasm, Mr. Flagler continued his work of development. Gathering around him men of ability in railroad and development work, he has given to the world an illustration of what energy and enterprise can accor plish. To the casual observer, the East Coast of Florida 25 years ago was probably one of the most uninviting development prospects in the whole South. Without transportation facilities except for a short line from Jacksonville to St. Augustine and two short, disjointed pieces of road the great stretch of country from Jackson ville to Key West, 500 miles in length. was without railroad facilities and without industrial or agricultural advancement. What Mr. Flagler has achieved in the creation of an empire is illustrative of the almost limitless possibilities, not alone of Florida, but of the whole South. The ame energy, the same capital, the sam far-seeing vision of a great leader who can bring things to pass as Mr. Flagler has done on the East Coast of Florida would duplicate his achievements throughout the

"The man who bets on the growth of the United States and keeps his debts paid will win financial success" is a statement made by Mr. Flagler when asked as to his views on the past and present business possibilities of the country.

"In the year in which I was born." added Mr. Flagler, "the United States had only 24 miles of railroad. Today it has nearly 240,000 miles. The marvelous expansion in railroad development during my lifetime, as indicated in these figures. is only typical of the vast expansion in every line of human activity. Wonderful. however, as has been the development of business and amazing as has been the growth of our country in the past, the future is destined to show a still more wonderful expansion. Instead of our country having attained unto the zenith of its material progress and prosperity, as some have assumed, we are only in the infancy of our growth. The possibilities of the future far exceed all that has been

"Never in human history has there been such a limitless scope for men of broad horizon, of energy and well-directed enterprise as there is today, and as the future will continue to open up to coming generations. For the individual man there is, I am sure, a broader field of activity, with greater opportunities for fame and for fortune than the past ever afforded to those who have achieved success. The limitless resources of our country awaiting development will furnish opportunities for profitable employment and for the creation of

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wealth beyond the dreams even of the most far-seeing optimist of today.

"While the development of the whole country affords scope for capital and energy. I believe that the resources of the South in climate, soil and mineral advantages, and in geographical position for commerce, will enable this section to cre ate greater business development and greater wealth than that of the entire country today. My own experience in the development of the East Coast of Florida is, I believe, typical of the possibilities of the South. Though I thought I had measured the probable growth of this section, its advancement has far exceeded my anticipations. Outside of the great rush into Oklahoma, some 17 or 18 years ago, and one or two similar movements of population in the history of our country, nothing like the present movement to Florida has ever been known in the United States.

"Two weeks ago the East Coast Railroad carried into the Fort Lauderdale sec tion of Southern Florida over 2000 men from the North and West, who went there to select lands previously purchased from one of the land companies operating in that section. There were camped on the ground at one time nearly 3500 men, living in tents, arranging to secure their allotment under the purchase plan. My advices are that these men are of the most substantial character of Western and Northwestern farmers and business men. Another company has recently sold in tracts of 10 to 20 acres to Western people a body of 60,000 acres of land.

"The growth of the East Coast, which is developing much more rapidly than it has been possible to provide railroad facilities for, is indicated in the fact that on Sunday night last in a distance of 200 miles wa had 32 loaded freight trains going in both directions, and last night we had on the line 180 carloads of miscellaneous merchandise from Jacksonville bound down the road to the Fort Pierce section. In order to meet this rapid growth of business we are now building 19 miles of sidings, and have placed an order for 25 heavy locomotives of the Pacific type. Were it not for the fact that I am now carrying out the building of 170 miles under contract to be completed not later than October, 1912, through the center of the State to the head of Lake Okeechobee, in addition to the Key West extension, I would immediately undertake the double tracking of the entire system, which I am satisfied must be done within the next few years in order to meet the rapid expansion

"The growth of business on the East Coast Line is indicated in the fact that during the first week of March the earnings exceeded the earnings of the corresponding week of last year by 36.18 per cent .: for the second week of March the increase over the corresponding period of last year was 43.16 per cent., and for the third week the gain was 40.38 per cent., and would have been much larger but for our inability to handle the traffic promptly. We now have at work on the extension to Key West over 1900 men, according to last week's payroll. Every steamer of the Mallory Line from New York to Key West brings us a number of men, but so great is the demand from the farmers for laborers that many of these men soon leave our construction camps for farm work, tempted by the higher prices that farmers are paying for laborers.

"I have never waivered in my faith in the ultimate very great development of the section into which I was putting many

millions of dollars. I have always looked the future is destined to surpass what has for great things, but the development now taking place far exceeds my anticipations

Since the work on the extension to Key West has been under way that section has been visited by several storms far worse than any of which there had been any record. In the hurricane of 1910 the ad attained a velocity of 120 miles per hour. These storms demonstrated that the concrete and bridge work had been constructed with such a margin of safety that it was not in the slightest affected, but it also demonstrated that some of the heavy fills at some points which engineers had thought would be adequate were not equal to meet such terrific hurricanes. We have therefore since the storms been carrying out all construction work on a basis to defy the winds and waves. This has neces situted trebling the amount of concrete and bridge work that we had first antice pated. As soon as the equipment used in the construction of the concrete and bridge work on that part of the road, sometimes known as the "over-the-sea" railroad, has been completed it will be moved to Key West and used in the construction of the terminal facilities to be established at that

"What has been accomplished in the development of the East Coast of Florida can be accomplished in other parts of this State, and to a very large extent through out the whole South. Indeed, the growth of traffic is treading hard upon the heels of transportation facilities. It will reonire a vast expenditure of money to bring about an expansion of railroad facilities in the South equal to the demands of the next few years. But this cannot be accomplished if railroads are to be hampered by adverse State and Federal legislation

The next quarter of a century of ma terial development belongs to the South, The movement of population to the East Coast of Florida, to which I have referred, I believe, an indication of a great Southward movement of population from the North and West. The growth of traffic, it seems to me, throughout the like the growth upon the East Coast Line, will demand an enormous ex penditure in providing more sidings, more double track, reduced grades, less curves and more rolling stock.

"I would again emphasize my conviction that the progress of the coming years will very far exceed that of the last quarter of a century. This country has entered upon an era of boundless expansion in trade and commerce, and though business may at times have its temporary setbacks.

been achieved in railroad expansion and business activity during my lifetime, as much as the progress of that period mea ured by a growth of railroads, from 24 miles to 240,000 miles, exceeds all that went before, but to accomplish this the railroads must be given an opportunity to make sufficient earnings to attract new capital, or else all railroad construction must depend upon the earnings of existing roads, a very slow way in which to expand railroad facilities."

Such are a few of the statements made by Mr. Flagler in discussing Florida, the South and the country at large. I believe it is safe to say that no other man has ever put as much of his own money into the creation of any one great railroad and country developing scheme as Mr. Flagler has put into his East Coast Railroad and the vast hotel and business operations con nected therewith. This 500-mile railroad is an individual enterprise built by him with his own money, and the enorg hotels at St. Augustine, Ormond, Palm and elsewhere built by him were also built with his own money. How many millions he has invested in Florida I de not know, but I have heard it estimated at over \$50,000,000, and by some at still higher figures. Here is a man over 80 years of age full of optimism, full of the joy of achievement, building that wonder extension over the ocean along the Florida Keys to Key West and now take ing up and letting to contract 170 miles of entirely new line to open up a section now without railroad facilities. No wonder the feeling of Florida people was voiced in a remark made to me a day or two ago a man who said: "I wish Mr. Flagler could live a hundred years longer.'

What other great constructive genius will come forward to do a similar work for the magnificent West Coast of Florida? What other men of equal creative powers will match his work in other sections of the South a thousand times more promis ing than was the East Coast of Florida when Mr. Flagler first began his work RICHARD H. EDMONDS.

The Birmingham Iron Market.

[Special Cor. Manufacturers Record.] Birmingham, Ala., April 3.

Consumers of iron in the South have been taking advantage of every opportunity that has presented itself to s iron for delivery over the remainder of the year on the \$11 schedule, realizing as they do that they cannot very well get hurt in buying ahead at such figures. This figure whereas gaspipe takes a higher differential

represents but little if any margin of profit to the average run of furnaces, and it is not believed among the well-posted iron men of the district that such prices can prevail for a very much longer period. As a matter of fact, the asking prices now are pretty well 50 cents per ton higher on the part of all producers for last half. The \$11 figure is general now only for prompt shipment and second quarter, while \$11.25 for third querter and \$11.50 for fourth quarter are about as good as buyers an do or hope to do this week. Very few sellers are inclined now to quote so far ahead. The consumption of pig in the South continues at a most satisfactory Year by year the demand for iron products in the South proper is increasing. and the melt of pig-iron into finished forms shows up very well indeed for the South in comparison with other districts. Furnacemen here report little probability of an early increase in Alabama's pig-iron production, but it is worthy of note that never before in the history of iron in this State was more careful and scientific attention given to the preparation of the raw materials entering into pig-iron. The result has been that with these better-pre pared materials, and with the latest me chanical appliances, the furnace stacks pretty well throughout the entire district are making records as to production, and at the same time with improvement in grades. On the recent visit of the blastfurnace committee of the Steel Corpora tion to this district, surprise was generally manifested on the part of the members who had not been here for some years at the improved conditions now prevailing in these respects.

There has been more or less trading recently in coal and ore lands in a small way, and it is understood that some goodsized transactions are now pending, with likelihood of being closed satisfactorily at an early date. Lands of this character are very scarce, and values are very much above figures of even five years ago.

The pipe manufacturers of Birmingham all report healthy conditions prevailing, with continued good demand and with some slight improvement being felt in prices. The output is reported as very satisfactory, while shipments have been very good on contracts taken during the winter months. Asking prices today are about as follows per net ton f. o. b. cars foundries this district: Four to six-inch \$22: 8 to 12-inch, \$20,50 to \$21,50; over 12-inch, average \$20.

These figures are for water pipe only.

of \$1 per ton. It is reported as being harder now to shade asking prices, eve on large lettings, which is a most favorable indication.

The scrap market continues to pres a dull and listless appearance. No trades consequence were reported last week, and the market appears to have been lef, altogether to take care of itself. Dealers' asking prices are about as follows per ton of 2240 pounds on board cars Birming

Old iron axles, \$14 to \$14.50,

Old iron rails, \$12 to \$12.50. Old steel axles, \$14 to \$14.50

No. 1 railroad wrought, \$12 to \$12.50.

No. 2 railroad wrought, \$9 to \$9.50.

No. 1 country, \$7.50 to \$8.

No. 2 country, \$7 to \$7.50. No. 1 machinery, \$9,50 to \$10.

No. 1 steel, \$10 to \$10.50.

Tram car wheels, \$9 to \$9.50.

Standard car wheels, \$12 to \$12.50.

Light cast and stove plate, \$8 to \$8.50 As the time draws near for renewal of

spring and summer steam coal contracts there comes a better feeling in the coal market. From April 1 to July 1 fully 75 cent. of the coal contracts for 12 months ahead are placed; so it is only natural that keen interest centers in this line at present. The mines, however, are far from producing now at the rate at which the 1910 high record was made Virginia cokes have been marked up 15 to 25 cents per ton in this district.

It is reported here that the plant of the North Birmingham Forge Co, will at once be converted into an agricultural imple ment manufacturing concern. This is but another evidence of the growth of the South in all respects, and at the same time is a reflection of the demand now being experienced for high-grade farm land in the South.

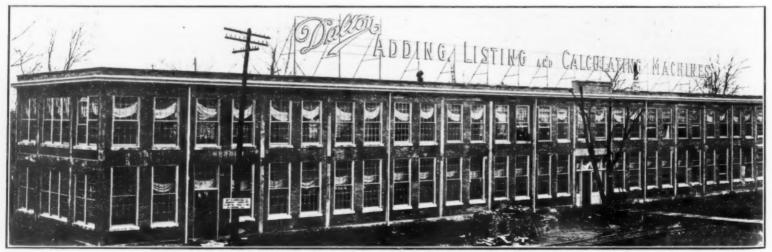
Mr. T. L. Powell, resident manager for the pig-iron firm of Hickman, Williams & Co., resigned to engage in the manufacture of pianos at Chicago. He is succeeded by Mr. L. E. Patton of the local office.

Steel Rail Orders.

[Special Dispatch to Manufacturers Record.] New York, April 5.

Rail orders this week included: Carnes gie Steel Co, sold 5353 tons to Sandy Valley & Elkhorn Railroad and 920 tons miscellaneous. Export sales through United States Steel Products Export Co., 4861 tons: Tennessee Coal, Iron & Railroad Co., 2140 tons; Illinois Steel Co. has o ders for 10,092 tons.

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DALTON ADDING MACHINE CO.'S PLANT AT POPLAR BLUFF, MO

Building is two stories high, 45x250 feet; reinforced concrete fireproof construction; built entirely of concrete, including floors, walls, ceilings, roofs and staircase; output will be Dalton machines for adding, subtracting, multiplying, dividing, figuring interest, making out monthly statements, etc.; electric sign on top of building is 5 feet high and over 200 feet long; it is equipped with tungsten globes and flashes the words syllable; sign so arranged that the twelve night trains arriving at Iron Mountain passenger station nearby open a switch to light the sign and start it flashing; after trains have departed the sign stops flashing and light is extinguished; company's president is James I., Dalton of Poplar Bluff.

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IN MINERAL AND FARM REGIONS.

To Build a Railroad 276 Miles Long in Texas.

[Special Cor. Manufacturers Record.] The Publicity League. San Antonio, Tex., March 28.

That a railroad 276 miles in length will be built within the next year from San Antonio to the Rio Grande Valley is now assured. Some weeks ago the business men of this city, who have long recognized the worth of the country through which the road will pass, began the organization of a construction company with a capitalization of \$500,000 in actual cash. A public meeting was held at the Chamber of Commerce, in which the various interests of the city were represented. At this meet ing a committee of 20, made up of the leading business men, to have charge of the organization of the construction company, was named as follows: George W William Cassin, Brakenridge, Edwin Chamberlain, Fred W. Cook, Le Roy G. Denman, T. C. Frost, D. K. Furnish, A. H. Halff, H. L. Halff, F. L. Hillyer, Otto Koehler, W. W. Lipscomb, Thomas B. Palfrey, J. H. Savage, J. D. Stevens, Eraest Stevens, W. B. Tuttle, George C. Vaughan, George W. West and Charles A. Zilker. Each of these is a business man of large affairs, and has been intimately associated with the wonderful progress of Southwest Texas. After these men had gone into the merits of the proposition in detail an active campaign was begun soliciting stock for the \$500,000 construction company. George W. West headed the list with a subscription of \$100,000, showing his implicit faith in the investment quality of the proposition.

The proopsed route of the line is from this city south through Atascosa, Live Oak and Nueces counties, and then southward to the famous Rio Grande country. The section of country through which this line will pass is one of the most remarkable in Texas, and, in addition to being one of the greatest agricultural and fruit sections, is exceedingly rich in minerals. In a recent talk before a mass-meeting at the Chamber of Commerce, Professor Phillins. State geologist, and one of the famous men in his profession in this country, told of the mineral resources of the section. It contains lignite coal in abundance, and, according to Professor Phillips' statement there is enough coal in the section through which the line will pass and contributary to it to last, if the consumption were ten times greater than it is today, 5000 years. The greatest natural gas belt so far discovered in Texas is directly on the route of this road, investigations showing that the pressure is as high as 600 pounds to the inch in some instances. Adjacent to this is an oil field in which development has already begun that promises even greater results than the world-famed "Spindle Top." A day or two ago drillers for oil in this new field near Pintas struck natural gas at a depth of 2800 feet with a pressure higher than has ever been discovered in any other gas field in Texas. The drillers experienced much difficulty in anchoring the flow.

Vast fields of kaolin, some of it as fine as has been discovered in the world, lie on both sides of this proposed road. That this is not an experiment, but is an actual fact. has been thoroughly tested, the product of these deposits having been sent to a number of famous potteries in this country, where is proved to be of that kind from which the finest china is manufactured. In proof of this Professor Phillips in his address here told of a set of china ware he has in his home, decorated with scenes from Texas history, which has been pronounced as fine as any from the famous has the unusual quality of being fit for the manufacture of everything from the commonly used grades of pottery to the finest china.

On the bluff of the San Miguel River vast deposits of lignite coal, in some instances eight feet thick, crop out, and in one locality this has been burning for 25 years or more, having been set afire at some remote time either intentionally or by accident.

The fertility of the soil for agricultural nurnoses, while having been tested in many places by modern farmers, was known to the Indians, and when Cortez visited this part of the State he mentioned the fact in his report that he found many of the creek bottoms cultivated by the native inhabitants, sharp-pointed sticks being used for that purpose. In those days the Indians were growing corn, and a number of other vegetables which are now found on every farm. For years much of this country has been devoted to ranching, but the fertility of the soil and its adaptability to the growth of both vegetables and fruit have started a movement to break the great ranches into tracts devoted to agriculture as a means of greater profit and in obedience to those demands which are making Texas one of the greatest agricultural States in the Union. This road will tap the Rio Grande Valley, one of the agricultural belts of Texas where productions have been so large that in many instances they have startled the agricultural world. In a period of three years since agricultural development began in this section, the tonnage in vegetables shipped out alone has amounted to thousands of cars annually to say nothing of the cotton and forage crops. This land will make San Antonio the gateway to the market centers of the North and East for the productions of one of the most fertile valleys in the world. In addition to those things already named, the road will pass through one of the most rapidly developing citrus fruit belts on the continent-that portion of the country where orange trees in a number of instances have been bearing for 35 years. But owing to the distance and inconveniences of reaching market, citrus fruit culture has not been conducted on that broad scale that soil and climatic conditions warrant.

The financial end of building this road, in addition to the advantage that will accrue to San Antonio and to the country through which it is purposed to build, is an item of great importance to those who are taking stock in the construction company. It is pointed out by those in a position to know that, on account of the uniform level surface through which the road will pass, it can be built for approximately \$10,000 per mile. Within the entire distance only one large river, the Nueces, is to be bridged, and engineers who have made figures on this say this can be done for \$30,000. Already the landowners along the entire line who will be benefited have signified their intention to give in right of way, townsites and other bonuses enough to practically build the line. It is estimated by those thoroughly in touch with conditions that the contributions which will accrue to the line will aggregate at least \$1 per acre through a large part of the country for miles on either side of the road.

One thing connected with the promotion of this road about which those working for it are proudest is the fact that there is no promoter, and that not one cent of "promotion fee" is to be paid to anyone. Every person who has subscribed to this fund, it is declared, will share equally in the profits that are sure to come to those who have taken stock in the construction Haviland works in Europe. This kaolin company. With the fund of the construction company in hand and those things | roll of \$350,000 per month and an output that will come to the company in the form of contributions to the effort from those who will be benefited will make the matter of bonding the line very attractive security to those seeking safe investments. One instance of this kind that is now attracting attention is that of the Houston & Texas Central Railroad, which is now disposing of lands given to insure the road's being built in retiring its bonds. selling enough land at increased valuation to liquidate this debt. Another instance is that of the Orient, which had promised to locate its shops at Fort Stockton. On the strength of this agreement land values increased so rapidly that Arthur Stillwell, president of the Orient road, sold enough lots to pay the expense of shop location and to build many miles of the road.

That this line will be built at an early date is emphasized by the fact that competent engineers have been secured, and the work of that department will be in full swing within the next 30 days. Taken as a beneficial effort for this city and the wide stretch of country directly south of this between here and the Rio Grande, no effort for the past 10 years has been so important, insuring, as it does, that San Antonio will be in the near future the great railroad center of the Southwest. with a contributory country very much larger than many States in the American TOM M. MORGAN.

Assistant Secretary.

OKLAHOMA CITY BUILDING.

Significant Improvements Made to Recent Months.

[Special Cor. Manufacturers Record.] Oklahoma City, Okla., March 20.

Among some of the larger and mor prominent buildings completed here within the past few months might be mentioned the new city high school, costing \$500,009 and ranking as one of five of the n modern and model institutions of its kind in America; a magnificent Federal building, under course of construction; two of the finest hotels in the entire Southwestern country, one eight stories and the other ten stories in height, as well as a number of small modern hotel buildings, either completed or nearing completion; three magnificent church buildings, costing from \$100,000 to \$125,000, each in course of

Residence building has kept pace with public and business building. Within the past 12 months hundreds of handsome structures and flats have been completed many of them costing from \$10,000 to \$50,-000 each. The winter season, having been a very mild one, has scarcely checked the building activities, and with the opening up of spring building permits are being issued at a rate almost equal to the most active period of "boom times."

In the wholesale district many new and fine buildings have been added during the past year, including several branches of big modern wholesale and manufacturing concerns. In the manufacturing district new plants are springing up, and there is a constant migration of industries that have outgrown their old quarters near the business center and are now moving to the outskirts in order to get larger sites to accommodate their increased operations,

The largest single concern now under onstruction is the packing plant of Sulzberger & Sons, costing \$3,000,000. This plant is the acme of perfection in modern packing-house construction. It is located adjacent to the Morris & Co. plant and the National Stockyards, and will be ready for operation in May.

Oklahoma City now has 196 manufacturing institutions in operation, employing approximately 5000 people, with a pay- mer has its inception at Fort Smith, Ark.,

of something more than \$3,000,000 per month.

For the year 1911 the Oklahoma City Chamber of Commerce adopted as its chief slogan "More Factories." Working along this line, the first two months of the present year has shown excellent results. Several institutions have been secured, and some 25 or 30 more are now under consideration and are fully expected to locate here within the year. The work has but fairly begun.

While all of this has been going forward the matter of public improvements has not been neglected. In street building the city has been particularly active. There are now complete 123 miles of this paying with enough under construction or contracted for to bring the total within the year up to more than 150 miles; a new City Hospital at number of fire stations. including a main central station and an entirely new fire-fighting equipment; water mains and sewers, equipping the new additions to the residence and manufacturing sections, and miles on miles of sidewalks. These improvements, together with the completion of a magnificent 28-mile boulevard encircling the city, stand to the credit of the public spirit of the people of this

The reader will perhaps get a better idea of the amount of business building accomplished during the past 12 or 15 months when I say that two miles of business frontage, including only buildings of two stories and more in height, have been erected. An idea of the business frontage values in the downtown district may be gained from the fact that Robinson street. the street described in the beginning of this article, is valued at about \$100 per inch, and this for a depth of only 50 feet. Eight years ago Robinson street was considered as the "ragged edge" of the business section, and the almost universal idea was that values on that street would neve reach a very high figure. It is now the center of the business district, and is commonly referred to as the "Wall Street of the Southwest." No "boom" ever produced any such concrete, brick and marble results. The reason "why" might be grouped under two great heads;

First, geographical location in the center of a vast territory abounding in a wonderful variety of natural undeveloped reources, with railroad facilities which make this city the actual center of the great Southwest.

The next great reason-and of no less importance—is the character of the people of Oklahoma City; people working in harmony; labor and capital; brains and brawn co-operating to the one common end of building a great modern city; levelheaded conservatism inspired by all the moral and financial daring of heroes in the PAUL B. SMITH. time of war.

RAILWAYS AT TULSA.

Well Equipped as to Trunk and Local Steam and Trolley Lines.

[Special Cor. Manufacturers Record.]

Tulsa, Okla., March 30,

It is an axiom that the surest indica tion of the prosperous future of any city is the number of railways entering its perlieus, their connections and the character of service rendered. With respect to these conditions there are few cities in the United States superior to Tulsa. Of trunk lines, having direct connection with all points north, south, east and west. she has the St. Louis & San Francisco, the Missouri, Kansas & Texas and the Atchison, Topeka & Santa Fe. Of local Atchison, Topeka & Santa Fe. lines she has two, the Midland Valley and the Arkansas Valley & Western The for-

with its present terminal at Arkansas City. Kans. Its mileage in operation is 313, with 55 miles under construction. When completed this will bring the road to a connection with the Union Pacific at McPherson, Kans. It is also in contemplation to extend the line from Fort Smith to some point on the Gulf, possibly Port Arthur, thus giving to the Southwest an additional transcontinental connection The Midland Valley is an invaluable feeder to the manufacturing and mercantile interests of Tulsa. The line not only passes directly through the very heart of the Mid-Continent oil and gas field, but trav erses one of the richest agricultural sec tions of Oklahoma. At Silverdale it taps the Missouri Pacific, thus practically giv ing Tulsa a fourth trunk line. Its other connections are: At Muskogee, with the Missouri, Kansas & Texas and the Misuri, Oklahoma & Gulf; at Bokash with the Fort Smith & Western; at Pan ama, with the Kansas City Southern: at Fort Smith, with the Iron Mountain, and Arkansas City it again strikes the Atchison, Topeka & Santa Fe and the Missouri Pacific.

The Arkansas Valley & Western road, having its initial at Tulsa and its terminal at Avard, is 173 miles in length, traverses a rich agricultural and mineral country, and is a prime factor in the build ing up of Tulsa. At Enid the road ties Tulsa on to a fifth trunk line, the Rock Island.

In addition to the local lines named, the city has a belt line under construction, which will give her exceptional transfer facilities. She also has two trolley lines, covering 12 miles within the city, together with two suburbans, both under construction—the one to Sapulpa already in operation to Orcutt Park, three miles; the other, the Sand Springs, six miles, will be completed about the first of June. The Sapulna line will be completed early in 1912. The two roads when complete will cover approximately 30 miles

Some idea of the magnitude of Tulsa as a railroad center can be gained by a knowledge of the fact that over the three trunk and two local lines 58 trains arrive and depart each day. The equipment of all these lines are first-class in every respeet, while their schedules could not be more conveniently arranged for the acamodation of the people of Tulsa and the traveling public. All of the lines, save newspapers, boards of trade, railroads and

the Midland Valley and the Atchison, Topeka & Santa Fe, have modern depots. At present the Atchison, Topeka & Santa Fe and Midland occupy the same station, and to say the least, it is not in any sense a credible structure. Inasmuch, however as the Santa Fe is negotiating for a full block of ground contiguous to its present terminal, it can safely be figured that possibly within the next 12 months a first lass modern depot will take the place of the old one, to be occupied by the two roads. The location of the several lines are so favorable that unquestionably in a few years Tulsa will be able to boast the finest union station of any city in the F. M. POSEGATE. Southwest.

BACK HOME TO THE SOUTH .. Intent and Scope of the Movement

for Immigration. [Special Cor. Manufacturers Record.]

Johnson City, Tenn., April 3. Starting as the basis for a publicity campaign for the Carolina, Clinchfield & Ohio Railway, the "Back Home" move ment has grown since last August. Being bound by no stereotyped formulae or pre cedent, the industrial department of the Clinchfield searched deeply into the moving impulses and sentiments of men as determining where they seek to live. It was early recognized that homeseeking persons are influenced by fanciful as often as by material, logical considerations. This fact is clearly seen in the movement of people to the Western and Northwestern States. and by the tone and character of literature which draw them thither. The advertising men of the Western railroads have long depended upon the lure of glitter, color and more or less nimble dealing with facts to attract people West. addition they have continuously "worked" the newspapers of the South with their press matter, which is cunningly written as news, but is always "spiked" with advertising of the West-just a faint touch. perhaps, but enough to keep public atten-

He reads but sketchily who does not now glimpse the designs of the "Back Home" movement. Early in the action it was scented out that a real counter-play against the game of the advertising men of the West, railroad, State and municipal, must be effected by calling into it all the

other agencies in the Southern States which are sending out people. First, as against the "Call of the West," which appeals to love of novelty and adventure. was put forward the "Back Home" appeal which is stronger and more lasting. former catches young men and those with the nomadic spirit; the latter seizes upon those who have tired of rambling and wearied of unfulfilled promises and the dreary isolation in many parts of the West and Northwest. Second, the move ment was, confessedly, given such direc tion as would obtain space in the news papers of the North, West and Northwest. This has been accomplished. Third, the Southern press has been brought en rapport for the purpose of offsetting, as far as possible, the advertising of the Western railroads; to reach their Western subscribers and to "ginger" the Southern railroads to the point of more extended advertising. Fourth, the movement was designed to enlist the people themselves in the work of immigration and to apply the factor of personal influence to bring ing more people into the South. In this, pointers were taken from the West, where every inhabitant is an immigration agent. By this it was hoped the public and the railroads of the South would, by working together, come into closer and better rela-

Now for the results: The "Back Home call is doing its work. Answering, men are coming back to the South. They are writing of conditions in the West, hitherto sedulously avoided by the Western railroads, and their letters are being published broadcast in the South. They are busy ing themselves spreading the "Back Home call-in advertising the South. Again, the people are offering-many of them are using personal efforts to bring in desirable new people. They are obtaining the addresses of hundreds-even thousands-of former Southerners for the use of commercial organizations and the railroads of the South. In short, the "Back Home" movement is doing all it started out to do, except to win the active support of all the railroads. Some of them. indeed, like the Norfolk & Western, Nashville, Chattanooga & St. Louis, Queen & Crescent, the New Orleans, Mobile & Chicago and Carolina & Northwestern, are co-operating in the movement, but the Clinchfield is persistently asking all South

ern lines to come in. "More people in any section of the South. more business in all parts of the South and everybody wants more business. An industrial man of one of the Southern railroads said recently: "We think the 'Back Home' movement is good, but we want to know what the Clinchfield has got 'up its sleeve.' " He was answered that it was not playing a game with the railroads and people of the South, but with the railroads and land-boomers of the West. The officers of the Clinchfield think it should be apparent that, as it has but a limited amount of territory to be developed along its 245 miles of line, but comparatively few could find homes therein, but that it is to its advantage that contiguous territory-the whole Southeast, in fact-be more densely populated. While it is in business for itself, and although it expects a full return for all its outlay. the time of its press agent and all, vet it is realized that to counteract the "Call to the West," to push the South into the "vast and middle" of the tide of emigration, all possible means must be employed: that the most effective of these is the "human interest" and personal factor phase of the "Back Home" movement

W. D. ROBERTS.

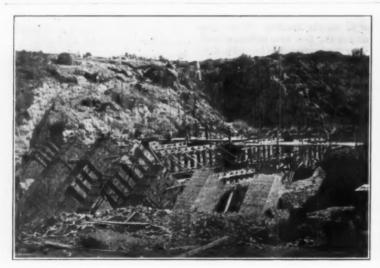
Wants Agents in the South.

The MANUFACTURERS RECORD is advised that a certain New York firm is seeking to engage representatives in the South. This firm is marketing a lockwoven steel fabric that is offered as a reinforcing fabric of high elastic limit, providing continuous bond. The stock is made 56 inches wide, 330 feet long, and shipped in rolls. Applicants for agencies are invited to address "Steel Fabric," care MANUFACTURERS RECORD, and the letters will be forwarded.

Of Interest to Architects.

Dr. H. O. Walter of Newport, Ark., writes the MANUFACTURERS RECORD that he wants to correspond with an architect who makes a specialty of school buildings.

The Norfolk Society of Architects has been organized with Messrs. F. F. Ferguson president: William N. Diehl, vicepresident, and Thomas T. Thompson, sec-



CONSTRUCTING ST. STEPHEN COMPANY'S DAM.



CONSTRUCTING ST. STEPHEN COMPANY'S DAM.

The St. Stephen Irrigation Dam.

The St. Stephen Land & Irrigation Co. of Marfa, Tex., is proceeding with the construction of its dam, previously reported by the MANUFACTURERS RECORD. Herewith are two photographs of construction on this dam. Referring to it, Sanford J. Truman, secretary of the company, the crest of the dam,

writes as follows: "The dam will be of | the Ambursen type, 104 feet high above bedrock, 992 feet long, with 62 feet buttresses set 16 feet apart. The entire dam and face wall will be built of reinforced concrete. The face wall will have an inclination of 45 degrees, and will be 42 inches thick at bedrock and 18 inches at

"We are building this across the Ala- ico & Orient Railroad will run through mito Creek, 11 miles due south of Marfa, our valley a distance of 11 miles, and we the county-sent of Presidio county, Texas. are now within 11 miles of the main line Our reservoir will cover about 1120 acres of water, and will hold 60,000 acre feet. From two main canals which will be built on each side of our property we will be acres of our land. The Kansas City, Mex- ing at Kansas City.

New Orleans and Los Angeles."

Rees Turpin is the company's president, able to put under by gravitation 9000 with offices in the New York Life Build911.

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Joint Convention of Three Associations in Louisville.

[Special Dispatch to Manufacturers Record.] Louisville, Ky., April 4.

The triple joint convention of the Southern Supply and Machinery Dealers' Association, the National Supply and Machinery Dealers' Association and the American Supply and Machinery Manufacturers Association was called to order Monday at the Seelbach Hotel, Louisville, by S. P. Browning, Maysville, Ky., president of the American Association. After the inyocation by Dr. Edward L. Powell, Governor Willson made the address of welcome on behalf of the State. In his remarks the Governor commended the plan of the joint meeting, saying that to counsel, plan, study and work out the problems incident to business would work out the greatest good to the greatest number of people and busines

In the absence of Mayor Head, Mr. Pendleton Beckley of the Board of Public Service extended the welcome on behalf of the city in an address of peculiar merit

For the business men of the city of Louisville, Mr. William Heyburn, president of the Belknap Hardware Co., greeted the delegates in a speech that was followed closely. He criticised in part the operations of the Sherman anti-trust law, and expressed the hope that in some way at some time it would be possible to enact legislation that would legalize business associations.

The responses to the welcoming addresses were made by Edward C. Hinman of the American Steam Pump Co., Battle Creek, Mich.; W. M. Pattison of the W. M. Pattison Supply Co., Cleveland, O., and by H. C. Clark of the Charlotte Supply Co., Charlotte, N. C.

Following the formal proceedings, gen eral discussion was had. John Trix of the American Injector Co., Detroit, Mich., related some interesting observations concerning a South American trip he had just completed, in which he spoke feelingly of the benefits to be derived from the operation of the Panama Canal, with a side light as to the absolute integrity with which it is being constructed. He said that in his 30-days' trip he had not seen the American flag floating on any ship, and came out strongly advocating a ship subsidy by Congress

Mr. George Puchta of Cincinnati, speaking to the question of the business outlook, declared he was an optimist of the pronounced type, and stated unequivocally that conditions were good and the outlook splendid, basing his opinion on crop conditions and the general business feeling.

In the afternoon the executive of tee of the American Supply and Machinery Manufacturers' Association held a meeting, at which time the work of the past year was carefully reviewed, and as far as possible the coming year's work was discussed in anticipation. One point in particular was dwelt upon, having reference to the possibility of continuing the triple joint meetings. It was determined, in the judgment of this body, that similar meetings were desirable because of the saving in time and expense, where all three associations could come together, as contrasted with separate meetings.

"From reports received, last year was a much better one than most of us had experienced in the last three years. We suffered fewer declines and received some advances, which, with larger profits secured and fewer bad debts charged off. made us more optimistic for the future. The consensus of opinion is that 1911 will be better than 1910." This is the opinion of Secretary Smith of the Southern Sup-

SUPPLY AND MACHINERY MEN. ply and Machinery Dealers' Association. contained in his annual report read before the association. It was learned from it that the membership had increased 25 per cent, during the year, the majority of new members having been secured through the personal efforts of President Clark. The report presented such topics as cast-iron and malleable fittings, cash discounts and freight rates. The subject of one-cent letter postage was dwelt upon at some length, and a campaign of education was suggested to secure this rate. Speaking of the Panama Canal, the reoort said there was every reason to believe that its opening would mean an era of new and greater prosperity for the South. particularly the Gulf States; that the great bulk of South and Central American freight passing through the canal would likely go through the Gulf ports of Florida, Alabama, Louisiana and Texas, and that the South should dominate this trade. and probably will. Parcels post was termed a calamity, and the report closed with a strong plea for organization and co-operation of business men, quoting the practice of the German and Japanese Governments. Reports of president, treasurer and committees; discussion of topics in the program as printed in the MANU-FACTURERS RECORD last week: routine business, and the appointment of a nomi nating committee completed Monday's and Tuesday's work.

The National Supply and Machinery Dealers' Association spent Monday and Tuesday with their annual reports and routine business. They, too, discussed one-cent letter postage, and, in the absence of Mr. McIntosh, the subject was presented by the advisory secretary-treasurer, T. James Fernley.

The American Supply and Machinery Dealers' Association followed its program of reports of officers and committees. The report of the secretary-treasurer showed increases in both resources and membership of 25 per cent. A nominating committee, comprising four former presidents of the association, was appointed by President Browning. A topic that was dis cussed earnestly was that of employers' liability and employes' compensation. The practice in Germany and some State laws were mentioned. Decisive action at this time was not possible, but strong expres sion was made of the desirability of an employes' compensation enactment by sane legislation. Coupled with this was the opinion that any organization or as sociation that was formed would be most practical where the individual employes were interested.

Approximately 350 members of the three associations and their ladies and guests have been registered. The business sessions are well attended. Outside the meet ing-rooms the business talk is cheerful. The local committees have done well. All seem satisfied. A. C. BOUGHTON.

FOR LOUISIANA IRRIGATION.

Representative Citizens to Witness Inauguration of a Great Plant.

Representative citizens of Louisiana and a large party of Pennsylvanians will witss on April 8 the placing in commission of the first pump of the plant at Washington, La., of the Union Irrigation Co. This project, which is to have wide-reaching effects in Southwest Louisiana, is the culmination of the plans which Mr. J. Franklin Schell has pushed for more than 10 years in the face of many difficulties. About \$2,000,000 has been invested in the project, which is designed to irrigate ultimately between 500,000 and 1,000,000 acres, and the first pump, one of five, will supply water sufficient to irrigate at least 15,000 acres. More than 50 cars were re- tracts for building have been let, as also quired to bring the machinery to the site have all orders for new machinery."

of the pumping plant, which is capable of lifting a stream of water six feet in diameter a height of 75 feet from Bayou Ca tawba. All the buildings have been coastructed with reference to enlargements in the future, the necessity for which is forecast in the fact that the plant is situated at the highest point in the prairie district of Southwest Louisiana, making it easy for the water to be distributed by gravity, as the irrigating canals and lat erals are extended, even to the point of meeting the wants of quite a million acres

The completion of the plant will assur agriculturists in that section of a supply of water at all seasons, and it is fully expected that, in addition to rice-growing, the ultivation of corn, cotton, cane, vegeta bles and other farm products will be expanded, as the soil is a fine silt, so free from grit that horses are seldom shod in that region. It is wonderfully fertile soil. and the initial inauguration of irrigation this week will be influential in furthering the full development of that section.

Portland Cement Plant Enlargement.

Details of the Atlantic & Gulf Portland Cement Co.'s plant enlargements at Ragland, Ala., are stated to the MANUFAC TURERS RECORD by Clarence N. Wiley. that company's chief chemist. He writes in part as follows: "The entire cost of culargements will be close to \$125,000. and will make possible a regular daily output of 2400 barrels. The stone storage (capacity 5000 tons of crushed limestone) will be equipped with belt conveyors, making all handling from crusher to scale bins mechanical. This stone storage will be in use in a few weeks. The clinker storage will have a present capacity of 50,000 barrels, and is so arranged that a 25,000barrel extension can be constructed at little expense. A Jeffrey pan conveyor will be used for carrying hot clinker from kilns to storage. A belt conveyor in tunnel under storage will carry seasone: clinker from storage to mill bins, provision being made en route for weighing and adding gypsum. The new machinery consists of two rotary kilns, 125 feet long and 9 feet in diameter, and three installa tions of five grinding units. Each of these consists of two Allis-Chalmers nulverators, Newago screen and Allis-Chalmers tube mill equipped with cylpeb improve ment. This equipment will be used for pulverizing clinker. The Fuller Lehigh mills used for this purpose will be placed in the raw grinding department. A large portion of new machinery is on the ground and being set up. The baghouse, 40x70 feet, will be equipped for handling 15,000 bags per day. Its construction will be steel and concrete, the walls being of plaster on expanded metal lathing to conform with surrounding mill buildings. The laboratory building, 30x45 feet, will two stories, basement being devoted to physical testing and second floor used for chemical laboratory. Basement will be half under ground, so that a more uniform temperature can be attained in all seasons. Up to first floor the walls will be of concrete; both floors of concrete. Floor of chemical laboratory will be reinforced and supported on concrete beams. matched wood floor will be laid on top of this. Remaining walls will be constructed by nailing inch boards diagonally to studding, affixing expanded metal lathing on both sides and plastering. This building will be absolutely fireproof, and will contain many original forms of equipment. A number of five-room cottages will be built. to conform in design to those already erected. All of these improvements should be completed by September 1. All con-

Big Sums for Streets.

An instance of the extent to which noney is being invested for street improvements by Southern cities is seen in a statement included in the annual report of the city engineer of Galveston. This statement applies to the fiscal year ending February 28, and shows that during that year over \$331,000 was expended for various street improvements, including \$24,-000 for vitrified brick pavement, \$53,000 for mudshell surfacing and labor, \$186,-000 for grade raising and filling, \$49,500 for routine work and maintenance.

Oklahoma City has been actively engaged in street improvements during recent months, and a statement of contracts awarded since January 1 shows that more than \$500,000 worth of paying has been arranged for. These figures are in the city engineer's estimate, and about 15 miles of additional work is proposed for 1911, at a cost of about \$50,000 per mile, which amounts to \$750,000. This will make the total work for the year great to \$1,250,000. These two cities are but instances of the great improvements going forward on the streets of Southern cities. Details of all work are presented from week to week in the Construction Department (see "Road and Street Work") of the Manufacturers Record

Providence Oil & Gas Co.

Referring to plans of his company for developing its properties, Frank Nelson. Jr., president of the Providence Oil & Gas Co., Birmingham, writes as follows:

"Our present capital stock is \$1,000,000, A stockholders' meeting has been called for the 11th of this month with a view to increasing the capital stock to \$1.250,000.

"This company controls about 60,000 acres in the Fayette gas belt, and has in operation three producing wells with a flow of about 6,000,000 feet per day. We are now under contract for the boring of four additional wells, and will probably let a contract in the next 30 days for five

"Gas is at present being piped from the producing wells to the town of Fayette, about two miles distant. Fayette is a small town of 10,000 or 15,000 people. Until the extent of the field is shown, which can be done in no way other than drilling. no arrangements will be made to pipe the gas in large quantities.

"After the gas has been thoroughly proven, if it is extensive enough, we expeet to pipe the gas to Birmingham, a dis tance of 65 miles; to Columbus, Miss., 40 miles, and to Tuscaloosa, 30 miles,

The gas is a very high quality, and the field thus far looks promising."

Natural Gas at Petrolia.

[Special Cor. Manufacturers Record.] Fort Worth, Tex., March 31,

At Petrolia, about three miles from Henrietta, Tex., and only a few miles from the center of the great oil district in Clay county, the Texas Company, the Guffey Company and other oil companies are act ively in the field, and 28 wells have been brought in. Eleven of them are fine gas wells. One company is furnishing Fort Worth with gas through 16-inch pipe, Many million feet of gas are being lost, and the timber land in that section is dying from the gases in the air.

Representatives of the State and other interests connected with the reclamation of the Florida Everglades are considering the advisability of caring for the construction of secondary canals to be cut through the rivers on the east side of the Everglades directly into the ocean, without waiting for the completion of the main canal.

Congress of Technology.

The sessions of the Congress of Technology, with which the Massachusetts Institute of Technology will celebrate the semi-centennial of the granting of its charter, will be opened in Huntington Hall, Boston, on Monday afternoon, April 10, with an address by President Maclaurin of the Institute, and will continue through April 11, when a large number of papers will be presented by distinguished alumni and members of the faculty of the Institute at sessions in the forenoon and in the afternoon, held in the various buildings of the Institute. These second-day sessions will be onen to the public.

The papers to be presented before the Congress will constitute, taken together, a somewhat remarkable record of the achievements of applied science within the last 50 years, and this record will be at the same time in large part a record of the work of men trained at the Institute.

Half a century ago there were many forces at work to impress on farseeing men the necessity of radical changes in educa tion in order that the country might profit as it should by the discoveries of science and by the application of its method and spirit to the great practical problems of the day. Following the plan laid down for it, the Institute has trained a number of men who are now in the very front rank of science, men who have extended far the boundaries of knowledge and thereby gained a world-wide fame. In addition to this its former students are to be found in positions of power and responsibility in every State of the Union, engaged in the work of developing mines, opening up the country by means of railroads, applying scientific methods to the great problems of transportation, power production and distribution, advancing chemical industries, conserving the public health and contributing in countless other ways to the increase of the nation's wealth.

This practical application of science to the affairs of life will be surveyed and described, as also the conditions and problems of groups of allied industries, in a large number of papers by alumni and members of the faculty of the Institute. The record of the proceedings of the Congress will furnish an epitome of what has been done by the application of technical science to the world's business.

The papers will cover such general subjects as architecture, business administration, economics, public health and factory sanitation, industrial organization and training, power production and distribution, materials and manufacturing processes, reclamation of arid lands. The subject of scientific management will be presented from many points of view, as it may affect railroads, and various manufacturing industries.

Cotton Rates Agreement.

[Greenville (S. C.) News.]

According to a statement made last night by Mr. Lewis W. Parker, the fight between the cotton manufacturers and the railroads for a more convenient schedule of rates on cotton-piece goods between interior points and Charleston has been practically settled.

Mr. Parker's statement in effect is that a settlement has been reached between the mill men and the railroads on two questions. One is the through rate between South Carolina points and New York, and the agreement on this making 45 cents per hundred a maximum rate for cotton-piece goods. It is stipulated that when the rate exceeds 45 cents it is to be reduced to 45.

The other question is that of the use of Charleston as a port. In order to facilitate this use it is agreed that on shipments of goods on all through rates a proviso for stoppage in transit will be made, enabling goods to be stored in Charleston and distributed from there without extra charge. This is a right similar to the concentration privileges, which has now been extended to cotton-piece goods as far as regards shipments to Charleston.

It is also stated that this settlement will probably lead to the building of warehouses for storing and distributing cotton-piece goods in Charleston.

The agreement between the roads and the mill men practically puts to an end the matter before the Railroad Commission, the decision to reopen the case and the injunction to prevent same.

The case has aroused considerable attention throughout the State, and in other States cotton manufacturers have watched progress with much interest. matter was first brought before the Railroad Commission during the fall of 1910. a petition being signed by a large number of mills throughout the State asking a reduction on the rate between interior points and Charleston in order to allow that port to be a storing and distributing center for manufactured products. The hearing was held, interrupted by the death of Commissioner Sullivan, and then resumed. During December of last year the commission ordered practically the rates requested by the cotton manufacturers. The order was to take effect during the early part of March, but just a few days before it was to take effect a petition from the railroads was granted by the commission, allowing a rehearing on the grounds of Mr. Sullivan's death.

Subsequent to this an injunction was issued at the request of the mill men holding up the order for a reopening of the matter, and requesting the commission to show cause why they should not be permanently enjoined from reopening the question. That injunction is still pending, the date set for the hearing not having arrived. The agreement which has been reached between the railroads and the cotton manufacturers brings the question to a close, and it is doubtful whether the hearing on the injunction will be held, except possibly as a formality.

Gray & Dudley Hardware Co.

In order to develop its general business, and particularly to increase its manufacturing departments, the Gray & Dudley Hardware Co. of Nashville has increased its capital stock to \$1,000,000, and has a surplus fund of \$250,000. This company now owns and operates three large factories at Nashville, consisting of two stove

and range foundries and one saddiery and harness factory. It has issued no bonds, and is enjoying the greatest prosperity 14 its history, so the MANUFACTURERS RECORD is advised by John M. Gray, Jr., first vice-president of the company.

American Undercurrent Co.

The American Undercurrent Co. of Pittsburg, H. L. Lambert, vice-president, Pennsboro, W. Va., is planning to build a manufacturing plant and town to be called Lamberton. Referring to the enterprise, Mr. Lamberton writes to the Manufacturers Record in part as follows:

"Lamberton will be located about one mile from Ellenboro and about four miles from Pennsboro, on the main line of the Baltimore & Ohio Railroad. It will be an up-to-date town. We will have paved streets from the beginning. All sewers. gas and water lines will be laid on the alleys instead of the streets, so there will be no tearing up of the pavement in repairing lines at any time. There will be no frame buildings on the main business streets, as all buildings must be built of concrete, brick or stone. On the residence streets the dwellings will be all set back a certain distance from the street.

"The first electric line in the county will be erected on Main street of Lamberton. It will also be the first town to have street cars propelled by the American undercurrent system. On the opposite side of the railroad from the town will be located the American Undercurrent Co.'s manufacturing plant, which will cover about 15 acres of ground, the supposed cost of which will be several hundred thousand dollars. The exact cost has not yet been determined at this time. It is supposed that when our factory is in full blast it will employ at least 1000 men."

Bald Mountain Cement Plant.

The Manufacturers Record has further advices regarding the Bald Mountain Portland Cement Co., mentioned last week as incorporated with a capital stock of \$1,000,000 to build near Aragon, Ga. J. L. Bass of Rome, Ga., one of the incorporators, states the company's principal office is at Rome, and that it expects to organize within 20 days to erect a plant for a daily capacity of 1000 barrels of Portland cement, this output to be increased to 5000 barrels in the future. Mr. Bass further writes:

"Bald Mountain is about 14 miles south of Rome and about six miles from Rockmart

surplus fund of \$250,000. This company now owns and operates three large factories at Nashville, consisting of two stove cement proposition. The quantity is practically inexhaustible, promising a supply for the manufacture of 5000 barrels of cement per day, without intermission, for probably 1000 years.

"However, nothing is being done just at this time, except that the advertisement for the charter is running and legal representatives are working on the title to the lands, which consist of more than 300 acres."

De Loach Manufacturing Co.

The De Loach Manufacturing Co. has fully organized, with offices in the Candier Building, Atlanta, Ga. Its capitalization is \$250,000, and its officers are: President, A. A. De Loach: vice-president and secretary, J. K. De Loach; treasurer, V. J. Adams. Its directors are Messrs, De Loach and Adams, H. H. Whitcomb, C. P. Byrd, H. M. Dorsey, F. P. Kern, S. R. Jacobs, E. E. Lowe, A. G. De Loach, J. T. Kimbrough and D. Wurtzburger. This company's foundation for its plant will be the established line of De Loach mill machinery, with the addition of the tracter truck department. It will use the patents of J. K. and A. A. De Loach on mill machinery and transmission for motor vehicles as a basis for a country roads tractor truck or all around utility wagon for any and all kinds of service in the country and on the farm. Mr. A. A. De Loach states that T. II. Martin and others of the best engineers in the country, as well as 49 motor-truck manufacturers who are using friction transmission, have endorsed his ompany's plans.

Merger Company Obtains Charter.

The Alabama Consolidated Coal, Iron & Steel Co, has been chartered with a nominal capital of \$1000, which it is proposed to increase to \$30,000,000, divided into \$10,000,000 preferred stock and \$20,-000,000 common stock. This company has for its purpose the consolidation of the Alabama Consolidated Coal & Iron Co. of Birmingham and the Southern Iron & Steel Co. of Gadsden, which contemplated merger has been heretofore referred to by the MANUFACTURERS RECORD. No official announcement of details has appeared. but it is understood that the arrangements are progressing. Joseph II. Hoadley, 165 Broadway, New York, is president of the Alabama Consolidated Coal & Iron Co.

A \$100,000 Rice Mill.

The Manufacturers Record is advised that a \$100,000 company will be organized to build a rice mill at Memphis, Tenn. This plant will be equipped for milling 5000 bushels of rice every 24 hours. It will comprise a four-story 44x 48-foot mill building, a one-story 64x128-foot warehouse, a one and two-story 100x 200-foot warehouse, all constructed of corrugated iron, and a brick boiler and engine house. In operation the mill will employ from 25 to 40 men. J. S. Warren will be manager.

The Old Dominion Mining Co., 80 Wali street, New York, is proceeding steadil, with the development of its lead and zinc properties near Joplin, Mo. It is now actively working a 20-acre tract, on which considerable modern machinery has been installed, including a plant of six handigs to temporarily treat the ore until the ground is opened up sufficiently to justify the erection of a mill. These installations will be completed this month, and other developments are under consideration.

A colony of Hungarians is to be settled upon a tract of land 15 miles from Tampa. Fla., to engage in the cultivation of the guttapercha plant.

It is reported that great beds of phosphate exist near Fredericksburg, Tex.



FIRST PRESBYTERIAN CHURCH AT HILLSBORO, TEXAS.

Building illustrated is to be erected; 72x60 feet; concrete columns; brown pressed brick, with concrete foundation; basement for Sunday-school; electric lighting; steam heating; modern seating; pipe organ; asphalt roof; now considering bids on construction, seating and pipe organ; architects, Galbreth Bros, of Oklahoma City; chairman of building committee, L. J. Thompson.

INDUSTRIES WANTED BY SOUTHERN COMMUNITIES

The MANUFACTURERS RECORD will be glad to receive from responsible correspondents in every town in the South brief items of news about business conditions and the opportunities for industrial enterprises. This information is desired for publication without cost of any kind to the sender, and regardless of whether the writer of the letter is a subscriber or not. The MANUFACTURERS RECORD accepts no paid matter in its reading pages. It seeks information of this kind from commercial and industrial organizations and from municipal authorities in every town and city of the South.

This department is open only to news facts of interest to investors, homeseekers and manufacturers. Communications of 200 or 300 words are likely to be given prompter

publicity than more extended ones.

FITZGERALD'S PROGRESS.

American State Bank, Fitzgerald, Ga., March 25. Editor Manufacturers Record:

The marvelous record achieved by this city is the wonder of the State. The town was not on the map 15 years ago; it is now a city of 8000 inhabitants (including adjacent suburbs). It has all modern improvements and a class of citizens that are highly progressive and imbued with the spirit of civic pride. It is the best laid-out city in the State; has an ideal climate, and the farm lands surrounding it are noted for their fertility and productiveness.

All the staple crops are raised here to a degree of perfection. Pecan culture has become very popular, and there are wide areas of pecan trees all around us. The enhancement in value of real estate, both city and suburban, has been truly wonder ful the past 10 years, and will be even more so in the future. To illustrate with facts regarding our remarkable growth. we will give you a list of improvements now going on: \$40,000 theater, H. A. Burkhart: \$3500 brick store building, two stories, F. J. Hansen; \$3000 two-story brick building, storehouse, Oliver Graham: \$3000 brick store building, G. W. Rogers \$5000 two-story brick store building, A. B. C. Dorminey; \$4000 brick stables, White head & Perry; \$8000 block of seven brick stores, one story, Arch Griffin: \$2000 improvement in Phillips Block: \$10,000 brick building, two-story stores and dwelling overhead, by Seanor & Roush; \$25. 000 Baptist church to be built this year. money already subscribed; Consolidated Grocery Co. has recently erected a \$25. 000 warehouse: Ben Hill Company, a \$5000 warehouse; Gray Bros., a \$4000 warehouse, and J. L. Dorminey has made \$\$000 improvements in hotel, adding a number of rooms.

Among the residences completed within the past few months are: John Justice \$6000 frame residence, two stories Mrs. Pauline Crawley, a \$7000 two-story frame residence: Mrs. T. L. Griner, resi dence at a cost of \$3500, two story frame : Col. C. B. Teal, \$2000 Mexican bungalow J. L. McCarty, \$3500 bungalow; B. T Strickland, \$2500 bungalow; W. R. Paulk \$6000 residence; Judge E. Wall, \$4000 residence; J. H. Mayes, \$4000 residence

Fitzgerald completed a few months ago an elegant passenger depot built by the A., B. & A. at a cost of \$35,000.

The banks of Fitzgerald are in a most sperous condition. The First National Bank, only 11 years old, shows a capital of \$125,000 and surplus and profits of \$80,000, deposits \$200,000; the Exchange National Bank, capital \$100,000, surplus and profits \$85,000, deposits \$400,000; Third National Bank, the youngest of the three national banks, being but four years old, capital of \$50,000, surplus and profits of \$11,000 and deposits over \$100,000.

000 and deposits are \$25,000. Never before have the banks in Fitzgerald enjoyed a more prosperous season than now

We need more manufactories down here. and invite correspondence on the subject. This is an ideal location for any kind of manufacturing enterprise, being the center of population for South Middle Georgia. Come to Fitzgerald if you want to be P. F. CLARK.

Vice-President.

WELL-FIXED LONGVIEW.

Chamber of Comme Longview, Tex., March 28.

Editor Manufacturers Record;

Longview, an industrial and railroad enter of East Texas, has a population of nearly 8000, and is rapidly growing. Industrially. Longview has a big plow factory, two railroad roundhouses and shops and a big box factory, besides many other industries of equal important

The Citizens' National Bank has just completed a new \$50,000 bank building. two stories, which is a credit to any city many times the size of Longview. First National Bank has just let a contract for the erection of a new bank building. four stories, which, when completed, will be the pride of the banking circle of East Texas: work will begin on this building April 1. Herman Yates has just about completed two new modern business houses, same being leased before he laid the first brick. Several additional bosiness houses will be constructed in this cit; in the near future

The city of Longview will vote a boad issue April 11 for the purpose of paving all of our business streets, buying the werage system and erecting fancy electric post lights, about 30 to 40 feet aparr. on each side of the streets in our business ditsrict. The bond issue will carry by a majority of at least 4 to 1.

Hundreds of men and teams are rushing the work on our new railroad. Port Bolivar & Iron Ore Railway, that will connect Longview with the famous ore fields of East Texas, 30 miles north. The road is to be completed by July 1, 1911.

Longview is the county-seat of Gregg ounty. Gregg county is one of the best little counties in the State. It has not a penny of indebtedness, and has over \$15,000 in the treasury. The climate is ideal, and fruit growing, truck farming and stock raising are the principal industries. Gregg county's tax rate is 5212 cents on the \$100 assessed valuation. curty has a permanent school fund of \$172,713. LUTHER ELLISON.

Secretary.

SWEETWATER HIGHWAYS.

Sweetwater, Tex., March 28. Editor Manufacturers Record:

On the 24th inst, the City Council of Sweetwater awarded the contract to A. J. Roy of this city for macadam and asphalt

Sweetwater. This issue of bonds has been sold to Ulin & Co. of Chicago at par, and all the proceeds will be spent on roads in a radius of five miles of the city. The roads will all be built up of macadam, and when finished will be second to none in all the Southwest.

Sweetwater's first packing plant is almost completed, and the cold-storage n chinery is being installed now. The plant will be ready for operation in a short time. Work will begin on the Glasgow-Davis packing plant in a few days, and it will be ready for operation, it is thought, in six BEN ANTHONY. months.

MEBANE IMPROVEMENTS.

Mebane, N. C., March 23. Editor Manufacturers Record:

The coming summer will be quite a busy one for the town of Mebane, as there will be \$15,000 spent on sidewalks and

other improvements.

The Mebane Bedding Co, is now at work on quite a large addition to its fac-

The White Furniture Co. has been very busy for the past 12 months working a large force of hands, its work including a very fine grade of solid mahogany furniture for the United States Government.

The Mebane Iron Red Co, reports a very satisfactory business, and is making

Mr. R. H. Tyson, Mr. W. Y. Malone Mr. Arthur White and others are planning to build nice homes,

The Mebane tobacco market has been very successful. We have only one warehouse, and have sold practically a million pounds of tobacco this season. Steps are eing made to build another warehou

Mr. W. A. Murry has purchased the Eaton farm, which is on the edge of town. He expects to divide this up in small farms

Miss Mattie Johnston has about com pleted an addition to the Johnston House me of our hotels, and expects to install up-to-date water system

The Continental Chair Manufacturing Co. has been formed to build an addition to its finishing-room. S. A. WHITE.

THREE-CENT NATURAL GAS.

Poteau, Okla., March 25. Editor Manufacturers Record:

Your journal has been very comprehensive in its report on the industrial development of the South, and we presume you are interested in any kind of new develop

ment that is being done.

Leflore county, Oklahoma, is being established as a natural-gas center for the east side of the State, Poteau, the county sent, being the point from which operations are being carried on at this time

The first gas was discovered by parties drilling for oil in July, 1910, three and a half miles east of Poteau. Since that time drilling has been done in different directions from this well, at this time there be ing six wells under way. Parties from Pittsburg. Pa., have contracted for the drilling of 15 wells in the vicinity of the first well drilled in. No oil has been discovered so far. The work is being pushed rapidly for the new wells, and gas at three cents per thousand feet is being offered now by the company which owns the plant TOM WALL. in the town of Poteau.

YOUNG, BUT DESIROUS.

and lath mill, planing mill and novelty works and electric-light plant; is ounded by fertile lands adapted to fruit culture, trucking and general farming and stock-growing.

The Board of Trade of 80 members is active and progressive,

Taft will be incorporated at an early

We want box, crate, basket and barrel factory, a wood-alcohol distillery; in fact, any factory to use pine and cypress timber. Factory sites will be given the right people, and other substantial aid.

Homeseekers and investors will find here any advantages. A letter to the secretary of the Taft Board of Trade for particulars will receive prompt attention.

W. L. VAN DUZOR.

Secretare.

BOX FACTORY FOR BEAUMONT. Beaumont, Tex., March 27.

Editor Manufacturers Record:

The Beaumont Chamber of Commerce is vigorously promoting the establishment of a large box factory at Beaumont, the idea being to utilize short length lumber from the many sawmills in the Beaumont country and tupelo gum timber, which grows so abundantly throughout the Sabine and Neches River basins. It is stated that countless millions of feet of this timber can be bought for almost nothing, and that Beaumont is an ideal assembling point for There are 118 sawmills within 100 miles of Beaumont. These mills cut yellow pine lumber, and the daily capacity aggregates 7,500,000 feet of lumber. There is a vast amount of short length lumber and culls in this cut, and it can be bought cheap enough to enable a box factory to handle it with profit. It is understood that Tupelo gum is becoming very popular as box-making material, and there is certainly an abundance of this material in the Beaumont country. The new industries committee of the Chamber of Commerce expresses confidence that local capital can be interested in the project if an experienced manufacturer can be found who will take financial interest in the company. An excellent site on the river front and with railroad facilities is available for the purpose,

ASHERTON'S GROWTH.

Asherton, Tex., March 22,

Editor Manufacturers Record.

This is the present terminal of the Asherton & Gulf Railway. As superintendent of buildings I came here in March, 1909, to erect for Mr. Asher Richards president of the railway company, a station, general offices, a bungalow and several cottages. Since then I have been busy putting up for him buildings ranging from a few hundred dollars in cost to \$30,000 for his own residence, to be completed within 30 days. The surrounding country where 20 months ago not a bush had been cut is now dotted with farms, and it is said that a train of 30 cars will be necessary to bring the crates this spring in which to ship Bermuda onions from the 700 acres planted in them in this immediate vicinity. There are here already well supplied lumber yards, hardware stores, dry goods stores and groceries, hotels, etc. I understand, though that is not authoritative, there is a prospect of the railway being extended 30 miles to the San Pedro ranch of 30,000 acres, belonging to Mr. Richardson.

JOSEPH E. HAYNES.

Detailed information about towns State bank in the city, was organized last fall, has had a remarkable record in the matter of new depositors, averaging a little over three new accounts a day for each working day this year, a record that would be difficult to surpass. It's capital is \$50.

GOOD ROADS

Vital Questions Dependent Upon Good Roads.

[Editorial Correspondence Manufacturers Record.

Jacksonville, Fla., April 1.

The question of good roads is not sim ply one of almost supreme economic value, but it is at the same time of vital importance from the religious and educational standpoint. Some years ago I heard the president of a great religious convention in the South in his annual address say to 2000 or 4000 delegates and visitors to whom he was speaking that it was their duty to work with untiring energy to se cure the building of good roads. "It is" he said "vain to hope to build up the churches of the country districts to their highest point of efficiency so long as imroads make church attendance practically impossible for a large part of the year." The more I have thought over the emphasis which he laid upon the build ing of good roads as a part of the religious duty of every man to whom he was speaking, the more deeply I have been impressed with the significance of his

It may be said that had roads mean the non-development to the fullest extent of religious and educational activities; they mean loneliness on the farm, and loneliness which is one of the impelling forces driving people from country to city life. It is not possible to retain upon the farm either the young people or the more active laborers so much needed in farm work so long as bad roads make easy transportaback and forth an impossibility. While I cannot vouch for its accuracy, it has often been claimed that the loneliness of country life results in more insanity among farmers' wives in proportion to the total number than is to be found in any other class of people. Whether this oft-repeated statement be correct or not, I can readily imagine that there may be some truth in it. The men on the farm are able to move around, to meet each other at the country store or to engage in outside pursuits which furnish some diversion. The farmer's wife in a country of bad roads has little or no diversion. It is almost impossible during a large part of the year for her to visit friends or to attend church, and no wonder the monotony of a life, where bad roads produce these results, hangs like a pall over Outside of the influence of bad roads against educational and religious development, and outside of the adverse influence of bad roads through intensify ing the loneliness of country life, the loss to farmers as to all others using roads is in the aggregate staggering. We complain bitterly against the railroads for freight charges, and yet put up with a cost of hauling over bad roads so many times greater than the cost of railroad freights per mile that we can but be amazed at our own failure to utilize our opportunities. Every wheel that turns over a bad road adds to the cost of living and doing busievery farmer is daily paying a toll through the heavy burden of bad roads which in the aggregate cost is far more than his taxation, both State and national. In fact, as an economic problem pure and simple, the question of good roads is of more vital concern to the American people than the question of protection or free trade. There is no other economic problem before the country of such supreme importance for the people of all classes and sections as that of good roads. While bad roads mean undeveloped educational and religious activities, continued loneliness of country life, lack of prosperity on

the farms as compared with what there might be, and many other disadvantages, good roads, on the other hand, mean the highest educational and religious advance ment, a more general prosperity of all classes, the elimination of the loneliness of country life and the keeping at home of tens of thousands of people who, without good roads, will continue to crowd to the cities, often to their own disadvantage and to the disadvantage of the cities. Well-rounded national development can only come through the highest develop ment of the agricultural districts, and this can only come through the highest development of all religious and educational activities and social possibilities. The country must be made as attractive through good roads and the blessings which they bring as the city, or otherwise we shall have a continuation of the tremendous drain from the country to the city, which has been one of the dominant features of our national growth during the last quarter of a century.

I believe it may be said without ques tion that, broadly speaking, the building of good roads through any settled district does not in reality cost the county, State or individual a single dollar. This is due to the fact that the construction of improved highways immediately results in enhancement in the values of all adjacent properties by reason, so far as the farming districts are concerned, of the higher profits which come through reduced cost in cultivating and shipping all products. A striking illustration of this was recently given when one of the leading citizens of Delaware made an offer to that State to build a highway through the entire State at a cost of \$2,000,000, and not to be reimbursed except through the increased income of the counties and the State from the larger values created by the construc-So confident was heand the whole history of the building of good roads proves the correctness of his position that there would come enhanced values by reason of greater profits to those living along the line-that he was willing to stake \$2,000,000 and thus show his faith by his works.

Throughout the entire world there has come an awakening to the importance of building good roads. It is true that in ost European countries there are magnificent highways on which hundreds of millions of dollars have been expended, but even in those countries renewed attention is being given to the betterment of existing roads. The South has b tremendously handicapped by its bad roads. The need of increased railroad facilities in the South is so great that it can scarcely be overstated, and yet vitally important as are enlarged railroad facilities, they are not so important as improved highways.

The South is annually losing millions of dollars through the higher cost of hauling over bad roads. This could be saved by the construction of good roads. The men who, like the president of the great religious convention to whom I have referred, are preaching throughout the South the gospel of good roads are doing much for humanity. Their work is of farreaching importance. No one can be too enthusiastic on this subject; no one can make a mistake in concentrating his work for the betterment of his country upon the building of good roads.

The growth of the automobile industry

for good roads. If the automobile should be considered only as a plaything of the well-to-do, it would still be a factor in National upbuilding of far-reaching importance, but the motor car is more than a toy or luxury of the hundreds of thou sands who are daily using them in city and in country. If the interest aroused by motorists to the need of good roads should bring about their general construction, the amount of money, vast as it is, which has been expended in the buying and running of motor cars would be counted from a National viewpoint a very wise investment. The annual loss from had roads is greater than the cost of operating all the motor cars that are owned in America. But the automobile is not simply a pleas ure vehicle: it is an expression or exponent of a new power which has come into the world for the betterment of mankind, the advancement of civilization and the enormous expansion of National progress and prosperity. The motor car means that mechanical power for transportation for business and pleasure and in various agricultural pursuits is to take the place of muscle power. About three quarters of a century ago, when the first locomotive built in the United States for an American railroad was constructed for a Southern road, the far-seeing people of that day named it "The Best Friend." They realized that mechanical power as typified in the locomotive and the railroad marked a new era in human affairs, a mighty step in the advancement of Today the little gasoline civilization. engine which runs the motor car and the motor truck, which pumps the water for all farm uses from that of supplying the e to that of irrigating purpo might be called "The Best Friend" The motor car is merely one of the influences at work to bring this new power with all its influence for good into universal play. The motor car thus becomes a tremen dous influence in the creation of a universal sentiment for good roads, and at the same time stimulates the mechanical genius of the rising generation, quickens the inventive faculties of thousands of young men and brings to the argicultural interests of the country new possibilities undreamed of a few years ago

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Easton, Md.—City will issue \$35,000 of bonds for street improvements.

Granger, Tex.—Justice Precinct No. 2 of Williamson county voted issuance of \$100,000 of bonds for road construction.

Lockhart, Tex.—Caldwell County Road Precinct voted \$50,000 of bonds for road construction.

Memphis, Tex.—Hall County Precinct No. 1 voted issuance of \$25,000 of bonds for road construction.

Bonds to Be Voted.

Brooksville, Fla.—Town will vote April 25 on \$7000 bond issue for paving streets and \$2000 bond issue for constructing sidewalks.

Liberty, Tex.—Liberty County Commissioners will probably order election for May 16 to vote on issuing \$250,000 of bonds for road improvements.

Longview, Tex.—City will vote April 11 on issuing bonds to pave streets in business section.

Sanford, N. C.—Lee county will vote on issuing \$100,000 of bonds for road im-

St. Petersburg, Fla.—City will vote

has tremendously added to the necessity of for good roads. If the automobile should struction of crosswalks.

West Palm Beach, Fla.—City will vote April 25 on issuing \$9000 of bonds for street improvements.

Contracts Awarded.

Bowling Green, Ky.—Southside Realty Co. awarded contract for constructing 14,000 square feet of concrete sidewalks.

Chase City, Va.—City awarded contract for macadamizing two streets.

Cocke County, Tenn.—County awarded contract for surfacing, grading and macadamizing 25 miles of roads.

Dallas, Tex. — City awarded various contracts for paving, totaling about \$74,000.

Denton, Md. — Talbot and Caroline counties awarded contract at about \$29,-000 for grading and macadamizing road and constructing 70-foot steel drawbridge.

Dresden, Tenn.—Weakley county awarded contracts for constructing roads in 22 county districts.

Farmville, Va.—City awarded contract for paving to cost about \$14,300.

Fort Worth, Tex.—City Park Board awarded contract for one mile of concrete sidewalk.

Knox County, Tenn.—County awarded contract for completing grade work on 25 miles of county roads.

Louisville, Ky.—City awarded various contracts for constructing vitrified-block streets and alleys.

Memphis, Tenn.—City awarded contracts for \$48,000 worth of street improvements.

Nashville, Ga.—Berrien county awarded contract for construction of graded road.

Norfolk, Va. — American Boulevard Corporation awarded contracts for granolithic sidewalks and grading,

Sweetwater, Tex.—City awarded contracts for 14 blocks of macadam asphalt paving.

Texas City, Tex.—Galveston county awarded contract at about \$17,410 for grading, regrading, mud-shell paving, culvert building, etc., on 4½ miles of road.

Contracts to Be Awarded.

Austin, Tex.—City receives bids until April 15 for paving, estimated to cost \$100,000.

Fairfax, Va.—Fairfax County Good-Roads Association plans rebuilding 20 miles of road at a cost of about \$100,000.

Greenville, Tex.—City receives bids until April 11 for constructing 148,600 square yards of paving and 84,000 linear feet of concrete curb.

Grenada, Miss.—City is inviting bids for constructing 75,000 to 150,000 feet of granolithic sidewalks.

Houston, Tex.—Bering Tire & Rubber Co. will construct two-mile speedway.

Linville, N. C.—Company has been incorporated to construct macadam 22 miles long.

Murphy, N. C.—Murphy township contemplates constructing 30 miles of macadam road.

Norfolk, Va.—City will construct cement concrete sidewalks to the extent of about 1100 square yards.

Oklahoma City, Okla.—City will receive bids until April 10 for grading, etc., on six avenues; receives bids until April 11 for constructing various sidewalks.

Pineville, Ky.—City will expend about \$25,000 for street improvements.

Ponca, Okla.—City will receive bids until April 5 for constructing three blocks of brick paving and eight blocks of macadam.

Williamson, W. Va.—City will receive bids until April 10 for about 16,000 yards of paving and about 11,000 linear feet of curbing.

Winnfield, La.-Winn parish contem

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plates road improvements, for which \$50,000 will be available.

BY CONVICT LABOR.

Building Splendid Highways in Georgia.

W. M. Gammon, Rome, Ga., chairman Board of Commissioners Roads and Revenue Floyd County, writes to the MANU-FACTURERS RECORD:

"The road from Rome to Chattanooga will be a graded macadamized road, with concrete-steel bridges over all streams and concrete culverts over all drains. Through Floyd county it will be of the same ciass as that of the Government road through the Chickamauga Park to Lafayette in Walker county, with which this road will connect.

"The road will be built with convict labor. This county has two gangs of 50 convicts each, 60 mules, seven road graders, two traction engines, with teams of steel cars and road rollers. The bridges and culverts will be built by a bridge gang of trained convicts. These convicts have become really experts in this line and will construct the bridges at about shalf the contract price. In fact, we find the concrete culverts with this labor about the cheanest we can build-about \$3 per cubic yard. With this gang we have built over 30 miles of this class of roads the past 18 months, 30 concretesteel bridges and 120 concrete culverts.

"If all the States would adopt the Georgia convict system, we would in a few years revolutionize road building in the South and have first-class roads from the Potomac to Mexico.

"Chattooga county and Walker county will only have about 16 miles to build of this road, and they propose to connect with our road and the Government road at Lafayette.

"This county has already built two roads of this character from Rome to the Alabama line, and with the co-operation of the Alabama counties expect to continue them to Birmingham. This county will also complete this summer one road to Polk county and another to Bartow, and with the co-operation of the other counties to continue the roads to Atlanta.

"We expect in the near future to have a through line from Chattanooga to Birmingham and Atlanta, passing through Rome. We advocate putting all convicts on the roads, and when the people understand the great benefits to be derived from this work we will soon have a splendid highway from Washington through Virginia, Tennessee and Georgia to the Gulf Coast in Florida.

"With regards and an appreciation of the good work the MANUFACTURERS REC-ORD is doing in the upbuilding of the South," etc.

Blackwood Mines and Mills.

The Blackwood Coal & Coke Co., Blackwood, Va., is progressing with its mine and mill construction heretofore detailed. This is seen in a statement from Clarence J. Creveling, general superintendent, who writes as follows:

"We have purchased all of our machinery and equipment for the sawmill, mines. etc. Our present tipple capacity will be 1200 tons per day. This will be increased from time to time. The band-saw mill will saw approximately 30,000 feet per day, and our circular mills 20,000 feet per day."

The new steamship Somerset of the Merchants & Miners' Transportation Co., to be used in the Baltimore, Savannah & Jacksonville service, was launched last week at Camden, N. J. The vessel is 333 feet long, and has first-class accommodations for 120 passengers.

RAILROADS

[A complete record of all new rallroad building in the South will be found in the Construction Department.]

OLIVER IN A BIG DEAL.

Snlisbury, Spencer and Concord Plants Bought-Rumors That the Dukes Are Interested.

[Special Dispatch to Manufacturers Record.] Salisbury, N. C., April 5.

W. J. Oliver and associates of Knoxville, Tenn., have purchased interest in Salisbury & Spencer Railway Co., and this company will immediately connect the street railways of Salisbury and Concerd by building interurban railway 22 miles. The company now owns six and a half miles of electric railway, and electric-light and gas plants of Salisbury and Spencer, and is in splendid financial condition. This proposed interurban line will connect towns having 24 big cotton mills and various other manufacturing plants and general shops of Southern Railway at Spencer.

Proposed improvements will cost half million dollars. Thos. J. Jerome.

Another report says that associated with Mr. Oliver in the transaction are E. G. Oates, T. A. Wright and John M. Ball. W. F. Snider of Salisbury is president of the Salisbury-Spencer Railway, among others interested being T. H. Vanderford and T. J. Jerome. The latter company controls the various properties mentioned.

President Snider is quoted as saying that great improvements will be made, and that the railway from Salisbury to Concord will be built immediately. A meeting will be held by all the parties interested within the next two weeks for the perfection of plans to fulfil the work in contemplation. The railway in the town of Concord is to be operated at once, the cars for it, which are of the storage battery type, having been shipped by the builders.

In connection with this deal it is rumored that the Piedmont Traction Co. and the Piedmont & Northern Railroad Co. (in which J. B. and B. N. Duke are interested for the building of an electric interurban railway system in the Carolinas) are also concerned in the purchase made by Mr. Oliver. He is the contractor for the construction of about 90 miles of line on the big interurban in South Carolina, and there are reports that the company enter tains ideas of extending it to many towns other than those which have heretofore been named. Nothing has, however, neen officially admitted as yet to show that they are behind him. Salisbury is about 35 miles in a direct line northeast of Charlotte, which is the headquarters of the in terurban company, and Concord is about midway, although not on a direct roate. Dispatches say that Mr. Oliver acquired control by buying 51 per cent, of the stock of the Salisbury-Spencer Railway, ai though another report merely says that he secured a joint interest with the present OWNORS

Presumably Mr. Oliver's company will do the construction work on the line between Salisbury and Concord.

NEW OKLAHOMA RAILROAD.

Ex-Governor Haskell, Wm. Kenefick and Others Will Build to Reach the Missouri Pacific.

The Oklahoma City Railway Promotion Co. has been organized at Oklahoma City. Okla., by ex-Governor Haskell and others with the object of building a line from a point on the Missouri, Oklahoma & Gulf Railroad—either Henryetta or Weleetka, Okla.—via Oklahoma City, and thence northwest to the Kansas State line boun-

dary to finally connect with the Missouri Pacific in Kansas, altogether about 350 miles. William Kenefick of Kansas City, president of the Missouri Oklahoma & Gulf, is said to be interested in the new company, which has organized with tem porary officers thus: C. N. Haskell of Muskogee, president; O. D. Halsell, vicepresident; J. H. Johnston, secretary and treasurer, the other directors being C. Colcord, A. H. Classen, E. K. Gaylord, R A. Vose, E. D. Nims, O. P. Workman, E. F. Bisbee and George W. Risser. The line will be operated by steam, and is estimated to cost about \$10,000,000. Ex-Governor Haskell is reported as saving that if nothing interferes it can and will be built in from 12 to 15 months after the preliminary arrangements are made. It is said that it will be constructed by Messrs, Haskell, Kenefick and Risser, with the co-operation of a citizens' committee. Mr. Risser resides at Oklahoma City. The capital stock of the company is \$300,000, and about \$175,000 are reported already subscribed.

It is said that the right of way is practically decided upon, and that arrangements have been made to float bonds, these curities to be taken by a syndicate in Paris, France, of which Mr. Kenefick is a member, it having handled the bonds for the Missouri, Oklahoma & Gulf Railroad. It is not intended to cease operations after building the line immediately in pros but the promotion company will devote its attention then to the construction of other roads required out of Oklahoma City. 1 is said that the line from Henryetta will probably run via Shawnee to Oklahoma City, and thence northwest via Kingfisher Woodward, Okla. It is anticipated that it will afford Oklahoma lower freight rates, and it will open up much new territory both east and west of Oklahoma City. Closer connection will be made to coal

CHESAPEAKE & OHIO.

Expenditure of \$9,000,000 Expected for Betterments on Western Lines.

Concerning the new bond issue of th Chesapeake & Ohio Railway for \$125,000,-000, it is reported in financial circles that \$30,000,000 are to be issued immediately after the stockholders approve the loan. Of the latter, \$21,000,000 will be used to take care of existing obligations, and the rest will be devoted to improving the west ern connecting lines of the system, the Hocking Valley, the Kanawha & Michigan and the Chicago, Cincinnati & Louisville, the latter being now known as the Chesapeake & Ohio Railway of Indiana. This will provide about \$9,000,000 for the latter purpose, and it is said that some doubletracking of the main line from Chicago east will be undertaken. Some expenditures for improvement of road have been already made on these properties, but more will have to be done to bring them up to the standard in order to make them ompletely efficient as is desired.

As for the new mortgage in its entirety, an officer is reported as saying that about one-half of the total money secured from time to time by issues of bonds under it will be spent for acquisitions of new lines or their construction, and that the rest will be for improvements. This is taken to mean that the Chesapeake & Ohio intends to indefinitely continue its policy of expanding and bettering its properties.

Another official is quoted as saying that \$1,500,000 have already been appropriated for improvements on the Cincinnati division in Kentucky. This includes double-tracking that is under way, and it will close the gap of 40 miles existing in the double track between Huntington and Cincinnati.

There are some interesting rumors afloat

that Edwin Hawley, who controls the Chesapeake & Ohio, has his eyes on the Seaboard Air Line and the Carolina, Clinchfield & Ohio Railway, and would like to combine them with the C. & O. It goes without saying that if such a combination should be brought about at any time that the projected link to connect the Clinchfield road with the Chesapeake & Ohio between Dante, Va., and Elkhorn City, Ky., would not remain long uncompleted, although it would require some of the very heaviest construction.

BIG INTERURBAN PLAN.

Southern Traction Co. to Connect Dallas, Waco and Other Texas Cities.

Dispatches from Dallas, Tex., report the organization of the Southern Traction Co. by residents of Dallas, Hillsboro, Lan-Waxahachie, Waco, Corsicana, Ennis, West, Milford, Italy and Ferris, with J. F. Strickland of Dallas as president, to build an interurban railway Dallas to Waco via Waxahachie, Hilisboro and Italy, 100 miles, with a branch from Waxahachie via Ennis to Corsicana. 35 miles, the entire line thus to be 135 miles long. Mr. Strickland, who is also president of the Texas Traction Co., which operates the electric railway between Dallas and Sherman, Tex., is quoted as saying that construction of the proposed road will begin immediately and that contract has been let to the Fred A. Jones Company for the engineering. Sur vey will start without delay from Waxahachie, surveys and reports having already been made on the line between Dallas, Waxahachie and Corsicana.

President Strickland is further reported thus: "The engineers are already moving their material to the field to begin work, and arrangements have advanced far enough both in the organization and in the financing of the enterprise for me to make the plain statement that work will not be stopped until cars are running from Dallas both to Waco and to Corsicana.

"This association is composed of a large majority of local people, who have already spent their money on the work heretofore done and are providing the funds for the future. This means, of course, co-operation in the communities through which these lines will run."

The directors of the company are J. F. Strickland of Dallas, president; Osco-Goodwin of Dallas, J. E. Whiteselle of Corsicana, J. T. Cole of Waxahachie and James B, Baker of Waco, vice-presidents; R. E. L. Saner and C. W. Hobson of Dallas, J. A. Thompson of Corsicana. George W. Coleman of Waxahachie, M. A. Cooper and H. H. Shear of Waco. Other officers are: T. A. Ferris of Waxahachie, treasurer; James P. Griffin Dallas, secretary; W. H. Painter of Dallas, assistant secretary; M. B. Templeton of Dallas, general counsel. The execcommittee consists of Messrs. Strickland, Goodwin and Hobson of Dallas, F. N. Drane of Corsicana and W. J. Neale of Waco. The trustees are Charles H. Allyn of Corsicana, W. D. Lacy of Waco, J. K. Parr of Hillsboro, S. M. Dunlap of Italy, J. Baldridge of Ennis. J. Houston Miller of Waxahachie and W. R. McDaniel of Milford.

There are two other companies which also propose to build railways from Dallas to Waxahachie. One of these is the Stone & Webster Corporation of Boston, which controls the Northern Texas Traction Co., operating the line from Dallas to Fort Worth, and the other is the Trinity Valley Traction Co., formed by J. V. Watkins and others, which aims to build not only to Waxahachie, but to continue its line to Corsicana and Palestine, J. N. Mitchell

of St. Louis is mentioned as one of those interested in the latter enterprise, which has been promoted for some time, and which, according to a statement quoting Mr. Watkins, is nearly ready to begin construction. It was only recently, however that publication was made of the plan of the Stone & Webster interests to build the contemplated line to Waxahachie.

BIRMINGHAM TO SELMA.

Two Companies Reported Contemplating Construction of Another Railroad.

The Louisville & Nashville Railroad Co. according to a report from Birmingham, Ala., has under consideration a plan to build a line which will make a route for it from there direct to Selma, Ala. At present the company can reach Selma over its own lines from Birmingham by only very roundabout way, but it would be possible for it to build a line 45 or 50 miles long from a connection with its Moutgomery route between Clear Creek and Jemison, several miles south of Calera, direct to Selma, although the report intimates that the idea is to build direct from Birmingham or a point near there, in which event the extension would be about 70 miles long.

It is also reported that the Birmingham Southern Railroad is contemplating building an extension from Bessemer to Selma. which would provide a new route between Selma and Birmingham. Several months ago a survey was made by independent parties for the Cahaba Valley Railway, and it has been rumored from time to time since then that construction of an entirely new road would be undertaken.

New Equipment, Rails, Etc.

The Carolina, Clinchfield & Ohio Railway is in the market for five Mallet articulated compound locomotives and two Mikado type locomotives.

The Citizens' Railway, Waco, Tex., has purchased some additional pay-as-youenter cars

The Gulf, Florida & Alabama Railroad Co., which proposes to build from Pensacola north, is reported in the market for 20 miles of 70-pound steel rails. R. C. Megargel, 5 Nassau street, New York, and others are interested.

The Western Maryland Railroad is in the market for more equipment, and is figuring on the purchase of 30 consolidation locomotives and five Mallet articulated compound locomotives.

The Harriman Lines, it is reported, are about to order 21,000 tons of rails, probably from the Illinois Steel Co., Chicago.

The Shawnee Traction Co., Shawnee Okla., is reported asking bids to furnish 4400 tons of standard section rails.

The Brinson Railway is reported to have received three new locomotives and 56 new box cars on its equipment orders.

The Metropolitan Street Railway Co., Kansas City, Mo., is reported to have placed an order for 2500 tons of 70 and 80-pound rails.

The Chesapeake & Ohio Railway, says a market report, will build 1300 cars in its shops and will purchase about 650 tons of steel center sills for them.

The Birmingham & Southern Railroad, it is reported, has ordered from the Pressed Steel Car Co., Pittsburg, 25 gondola, 55 flat and 20 box cars.

The Missouri, Kansas & Texas Railway is reported in the market for 16 loco

The Richmond, Fredericksburg & Poto mae Railway is reported contemplating the purchase of four passenger cars.

The Seaboard Air Line, says a market report, will buy 14,000 tons of rails.

The Georgia Railroad is reported to have

Philadelphia, for six 10-wheel locomotives The Jacksonville (Fla.) Electric Co will, it is reported, purchase 10 passenger

The Rock Island is reported to have ordered 11 70-foot all-steel combination cars and 30 60-foot all-steel postal cars from the Pullman Company, Chicago

The Georgia Railway & Electric Co. Atlanta, says a report, is building six cars in its own shops.

The Santa Fe, according to a market report, has ordered 20 passenger cars from the Pullman Company.

The Illinois Central, it is currently re ported, has ordered five Pacific-type locomotives from the American Locomotive Co., New York. The Kansas City Southern, according to

a report quoting an officer, contemplates increasing its equipment by purchasing 25 motives, 25 passenger cars and 125 freight cars

Kansas City & Memphis Plans.

It is announced that the formal absorp tion of the Arkansas, Oklahoma & Western Railway and the Monte Ne Railway by the recently chartered Kansas City & Memphis Railway Co, will take place about April 10. George D. Locke, president and general manager at Rogers, Ark., is quoted as saying that the existing line consist of a road from Rogers to Siloan Springs, Ark., 31 miles, and another from Freeman, Ark., to Monte Ne, 6 miles, mak ing a total of 37 miles of track. It is, therefore, a very modest enterprise at pres ent, having only five locomotives, three enger cars and 31 freight cars.

But a considerable extension is pro posed, as heretofore reported, and the line when wholly complete will reach from Rogers, Ark., to Memphis, Tenn., 294 miles, and construction is under way on the first section of 20 miles between Cave Springs and Fayetteville, Ark., which will be completed ready for operation by September 1 next. This construction is in the northwestern part of Arkansas, but the proposed route to Memphis is indicated by the official statement that connections with other roads will be made thus: Frisco at Fayetteville, Missouri & North Arkansas at Searcy, Iron Mountain Route at Judsonia and Augusta, St. Louis Southw ern at Cherry Valley, and thence to Memphis.

It is proposed to issue \$6,000,000 of 5 per cent, 50-year bonds dated May 1, 1911, which are to be issued at not over \$18,000 per mile, that being \$15,000 for construction and equipment and \$3000 in reserve for betterments. Headquarters of the company are at Rogers, Ark., and 30 Broad street, New York.

New Railroad Enterprises.

The Elizabethton, Milligan & Johns City Electric Railroad Co., capital \$25, 000, has been chartered in Tennesse build a line about eight miles long from Johnson City via Milligan College and Oak Grove to Elizabethton. The incorporators are W. G. Payne, James H. Smith, A. B. Brannon, W. C. Burchfield, J. N. Inders and J. G. Burchfield.

Dispatches from Dublin, Ga., report that J. H. Plummer of New York, J. R. Crandall of Midville, Ga., and J. O. Hall of Toomsboro, Ga., are looking into the feasibility of constructing a railroad, to be called the Georgia Midland & Gulf, from Athens, Ga., which is on the Seaboard Air Line, via Milledgeville, Toomsboro, Dub lin and McRae to some point in the southwestern part of Georgia, and perhaps to the Gulf of Mexico. Such a line would probably intersect the new Georgia & Florida Railway south of McRae.

The Shelby Northwestern Railroad Co. awarded contract to the Baldwin Works, has been chartered in Missouri to build a line 15 miles long from Shelbyville to the north boundary of Shelby county; capital \$225,000. The stockholders include John A. Hope, Giboney Houck of Cape Girar dean, Mo.: J. H. Byrd, John Tlapek, H. M. Houck and G. F. Houck.

Work on Piedmont & Northern.

Construction has begun near Belton. C., under the contract of W. J. Oliver of Knoxville, Tenn., on the Piedmont & Northern Railway, and soon work will be in progress on other parts of the line. as the subcontractors are assembling men and materials for the task before them. Construction began about two weeks ago upon the line in North Carolina between Charlotte and Kings Mountain.

There are rumors that Mr. Oliver may undertake the construction of an extension of this line south from Greenwood to Augusta, Ga., about 70 miles, or this distance might be shortened by building to a connection with the Augusta & Aiken Electric Railway. Such a line could run via either Saluda or Edgefield, although the latter would be the most direct route,

A dispatch from Raleigh, N. C., says that the Piedmont Traction Co., which is the corporation in that State corresponding with the Piedmont & Northern in South Carolina, has increased its capital stock from \$100,000 to \$1,500,000.

Improvements on the Southern.

It is officially announced that extensive improvements will be made immediately by the Southern Railway on its line between Atlanta and Macon, Ga. The work indudes the laying of about 20 miles of passing tracks and the revision of grades. The tracks will be of the kind known as lap sidings, which greatly facilitate train movements. They will be placed at intervals of about five miles, and each will accommodate four trains. This will afford many of the advantages of double tracks. and will greatly increase the capacity of this important line, over which are handled through passenger trains between Florida and the West, in addition to the regular passenger and freight service. During the last few months the company has finished strengthening the bridges, and is now operating over the road its heaviest These proposed improve locomotives. ments will enable it to give better service, and will also provide for increase of busi-

To Traverse a Good Country.

E. E. Trippe, Fristoe, Mo., says that the Osage, Ozark & Springfield Railway Co, has not completed organization, but it proposes to build an electric railway 80 miles long from Warsaw to Springfield. Mo., via Fristoe, Cross Timbers and Buffalo. Money is all subscribed for a preliminary survey from Warsaw via Fristoe to Cross Timbers. The route is along a level ridge for the entire projected line. There will be a bridge over the Osage River at Warsaw, and others over a few creeks. No tunnels. Connection will be made with the Missouri Pacific Railway at Warsaw and with the St. Louis & San Francisco Railroad at Springfield.

The promoters of the enterprise are eking to interest capital in the road. which is described as traversing a rich farming district with good towns along the route and now without railroad facilities.

Progress on the San Benito Road.

Official information received concerning the San Benito & Rio Grande Valley Railway, San Benito, Tex., says that it is not incorporated, and stands in the name of S. A. Robertson, trustee. The letter containing the foregoing continues as follows:

"It is contemplated to build about 45 miles. We now have 10 miles of steel laid ington.

and about 20 additional miles graded. We have just purchased 13 miles of additional steel rails, and have sufficient ties on han.l to lay 13 miles of track. There is no heavy work and no tunnels, as this is a level ecuntry, the work running only about 8000 yards per mile. The Hidalgo Construction Co, of this place has the contract for the entire work.

"Mr. C. E. Ensminger is chief engineer and Mr. S. A. Robertson is trustee and general manager. Have no other officers.

To Build the Cullman Railroad.

An officer of the Cullman Coal & Coke Co. is quoted as saying that it will complete its railroad this spring and summer from Cullman to Juliana via Trimble and Bremen, 28 miles, upon which 61/2 miles of track have been laid. There will be 213,483 cubic yards of excavation, 5718 cubic vards of concrete for piers and abutments, and 578 tons of steel for bridges. There are 1551 cubic yards of the concrete already built, and the contractors for it are Arnott & Co. of Birmingham. The Virginia Bridge & Iron Co., Roanoke, Va., is contractor for the bridges, Maximum grade on the line will be very slightly less than 1 per cent., and the maximum curvature 9 degrees. Headquarters of the company at Cullman, Ala., with J. W. Jones chief engineer and G. H. Ten Brock president.

Mattamuskeet Railroad.

The Mattamuskeet Railroad Co., writes A. M. Dumay, secretary of the Chamber of Commerce at Washington, N. C., has graded 611/2 miles of line from Fairfield to Belhaven, N. C., and rights of way are now being secured from Belhaven to Washington, 26 miles. Grading will soon be started between those points with convict labor furnished by the State. The entire line will be about 87 miles long. Bridging wili consist of trestles. The route level. Connections will be made with the Atlantic Coast Line and the Norfolk Southern railroads at Washington. S. S. Mann is president; C. W. Davis, treas urer, and R. Maxwell, chief engineer,

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Sugar Land Railway Extends.

The Sugar Land Railway, says an official, has built a line to Anchor, Tex., and it is quite probable that this will be extended three or four miles to the Brownsville road in the near future. It is also hoped to be able to build before very long to Hempstead. Tex., but there is nothing definite yet as to when this will be started.

To Cultivate Cotton in Mississippi.

It is reported that Memphis capitalists and members of a spinning association of Manchester, England, are forming a syndicate to be capitalized at \$3,000,000 for the purpose of developing cotton land in Mississippi. The report states that 32,000 acres in Bolivar county will be purchased for about \$2,000,000, and that it is planned to invest during the first year about \$1,-000,000 for improvements, steam plows, fertilizing, etc., for the scientific produc-About 12,000 acres of the tion of cotton. land is covered with a hardwood growth. which it is contemplated to remove. The Memphis News-Scimitar states that the Memphis parties interested are L. K. Salsbury, Isaac Reese, George H. Tucker, R. T. Fant and A. S. Buchanan,

George Weems Williams of Baltimore has been appointed receiver for the Washington & Rockville Railway Co., which has a line of electric railway running from Washington, D. C., to Rockville, Md., and connecting with street-car lines in Wash11

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TEXTILES

[A complete record of new textile enter-prises in the South will be found in the Construction Department. 1

Correspondence relating to textile matters. especially to the cotton-mill interests of the especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cetton matters

WOOLENS AND WORSTEDS.

Advance in the Industry in the Past Ten Years.

The preliminary figures of the woolen and worsted goods industry issued by the Census Bureau show that the amount of capital invested increased from \$256,554, 000 in 1899 to \$415,465,000 in 1909, or 62 per cent, and that the value of prodincreased from \$238,745,000 to \$419,-826,000, or 76 per cent. Comparison of leading items in the industry in 1899, 1904 and 1909, the figures not including the manufacture of carpets, felt goods, wool hats, hosiery, knit goods, shoddy and independent dveing and finishing establishments, are as follows:

most notable figures are the great increases in quantities and values of worsted fabrics, and the pronounced decreases in the quantities and values of many kinds of woolen fabrics produced. Of the all-wool goods, the value of woolen suitings and overcoatings increased 5 per cent., and woolen dress goods 26 per cent. Worsted suitings, on the other hand, increased 136 per cent, in value and 119 per cent, in quantity, and worsted dress goods 231 per cent. in value and 83 per cent. in quan tity, both showing a much higher value per square yard in 1909 than in 1899 All-wool flannels for underwear decreased both in quantity and in value, while allwool blankets decreased slightly in quantity, but gained in value. Of the union or cotton-mixed goods pro-

duced, the value of men's wear fabrics decreased 39 per cent., and the value of women's dress goods 52 per cent. Mixed cotton and wool blankets showed a gain of 154 per cent, in value.

Of goods woven on cotton warps, woolfilling suitings showed a slight increase in quantity, but a decrease of 1 per cent. in value, denoting a drop in price per square yard-due possibly to the use of inferior materials in this class of goods. Worstedfilling suitings and overcoatings increased

		Census		of increase.
Number of establishments	1909.	1904. 1.018	1899. 1.221	1899 to 1909. *25
Capital	\$415,465,000	\$302,767,000	\$256,554,000	
Cost of materials used	\$273,466,000	\$197,489,000	\$148,087,000	85
Salaries and wages	\$79,214,000	\$61,433,000	\$50,126,000	62 85 58 52
Miscellaneous expenses,	\$21,347,000	\$16,520,000	\$14,036,000	5.2
Value of products	\$419,826,000	\$307,942,000	\$238,745,000	76
Value added by manufacture (prod-				
ucts less cost of materials)	\$146,360,000	\$110,453,000	\$90,658,000	61
Employes:				
Number of salaried officials and clerks	5,325	4,324	3,615	47
Average number of wage earners				
employed during the year	162,914	141,998	125,901	*Decrease.

and important changes in the character etc., which are worsted rather than woolen of materials used in the past decade. The quantity of wool consumed, in condition purchased, increased from 330,179,000 creased both in quantity and value. pounds to 474,751,000 pounds, or 44 per ent.; reckoned on a scoured-wool basis, the increase was 50 per cent. The quantity of raw cotton consumed decreased from 40,245,000 pounds to 20,055,000 pounds, or 50 per cent., while the amount of cotton yarn purchased increased from 35,343,000 pounds to 39,169,000 pounds, or 11 per cent. The net result is a decided ecrease in the amount of cotton used as a material by wool manufacturers

The figures also show a marked decrease in the use of shoddy. The quantity purchased decreased 35 per cent., and the amount manufactured in woolen mills for use therein fell off 10 per cent. In 1899 the total amount of shoddy consumed by woolen and worsted manufacturers was 68,663,000 pounds; in 1909 it was only 53,-621,000 pounds, a decrease all the more significant when the growth of the industry is considered. This is explained by e fact that the manufacture of worsted fabrics, into which shoddy does not enter as a material to any appreciable extent, has increased enormously, while the quantity of woolen fabrics in which shoddy is utilized was actually less in 1909 than in 1899.

The quantity of tops purchased as ma rials increased from 5,566,000 to 20,828.-000 pounds, or 274 per cent., and the quantity of worsted yarn from 25,111,000 to 58,769,000 pounds, or 134 per cent These increases are due not only to the rapid growth of the worsted branch of the industry, but also to the greater degree of specialization which developed within that Weavers of worsted fabrics usually purchase their yarn instead of spinning it themselves, and although worsted spinners usually comb their own wool, they are purchasing tops to an increasing extent.

The Census Bureau finds interesting | 111 per cent., and linings, Italian cloths goods, gained 308 per cent, in value. Satinets, linseys and cotton-warp blankets de-

> On the whole, the values per square yard of cloth manufactured were much higher in 1909 than in 1899. Among the reasons for this may be given higher costs of production and an improvement in the general quality of goods made.

The relative amounts of woolen and worsted fabrics produced are more clearly brought out by combining the items of the above statement which fall in each of the two classes. In 1899 the number of square yards of worsted suitings, overcoatings and dress goods, worsted-filling suitings, overcoatings and dress goods, and lining Italian cloths, etc., was 181,228,000, while in 1909 there were 350,659,000 square yards, an increase of 93 per cent. A combination of the remaining items shows 245,723,000 square yards of woolen cloths made in 1899, and 220,740,000 square yards in 1909, or a loss of 10 per

Of the partially manufactured products made for sale, wool waste shows a gain of 185 per cent, in value over the 1899 figures. The large increase in quantity and value of noils produced for sale is another evidence of the growth of the worsted branch of the industry, and the large quantity of worsted yarn which enters the channels of trade is due to the fact that worsted spinning and weaving are not usualy carried on under the same roof.

New Southern Cotton Mills.

Activity in organizing mill companies and planning to enlarge established mills in the South during the first quarter of the year resulted in announcements totaling 59,500 spindles and 1660 looms. This machinery, with accompanying equipment. buildings, land improvements, etc., will involve an investment of about \$1,500,000. Of this amount, \$1,000,000 is the capital-As to products, the census finds that the ization of one plant. Another plant of chinery, new buildings, etc. It will erect pickers, garnetting and mixing machin-

interest will be the \$75,000 enterprise to of these various plans have been stated manufacture oilcloth at St. Louis. The standard of the Manufacturers Record during \$40,000 company organized at El Paso, January, February and March. to employ Mexican and Indian hand workers on the production of drawn work, ing mill enterprises of the first quarter is is another enterprise of interest. Details as follows:

A tabulated list of the new and enlarg-

COTTON MILLS.

	Alabama.		
Name. *Siluria Cotton Mills Co	Location. Situria	Spindles,	Looms, 400
	Georgia.		
Castle Cotton Mills	Jasper	55,000	1200
	Missouri.		
National Oilcloth Co		ipital stock,	\$75,000.)
	North Carolina.		
*Newton Cotton Mill			\$250,000, 1 60
	South Carolina.		
*Oconee Cotton Mills Co		pital stock, e capital sto ,000 to \$550.0	ck from
*Riverside Manufacturing Co			ck from
*Toxaway Milis		capital sto	ck from
	Texas.		
*Cuero Cotton Mills Mexican & Indian Drawn Work C	Cuero	2,000 hand work ; stock \$40,00	capital
Total for first quarter of year *Established mills enlarging.	***************************************	59,500	1660

Southern Knitting Mills.

mills announced as to be established. Five ties in building and machinery, of these enterprises will have a total capital stock of \$107,000, the capital stock of lows:

the other three not being stated. One During the first quarter of this year company increased its capital stock from there were eight new Southern knitting \$50,000 to \$100,000 for improved facili-

The new mills announced were as fol-

KNITTING MILLS.

Name.	Location.	Capital stock.
James Knitting Mill Co	.Mt. Pleasant, N. C	\$50,000
W. A. Ellington	. Sanford, N. C	15,000
Tar River Hoslery Mills	. Washington, N. C	
Robert E. Lee	.Lumberton, N. C	
Mt. Vernon Knitting Co	. Baltimore, Md	28,000
Allgood Hosiery Mills	Vaughan, N. C	12,000
Fuller Knitting Mills	. Villa Rien, Ga	10,000
8. C. Meade	Anniston, Ala	
		\$107,000

Dunson Mills.

The Dunson Mills of Lagrange, Ga., has awarded all contracts for plant mentioned last week. Building contract calls for completion by September 15, and was awarded to the Pike Bros. Lumber Co. of Lagrange. Main mill will be of brick, type, with one-story shed, 132x572 feet, costing about \$96,000. It will have 20,000 spindles, 400 to 500 looms 40 to 72 inches wide, carding and picking machinery, etc., for manufacturing ducks, drills, twills, sheetings and osnaburgs from 36 to 72 inches wide weighing from 4 to 17 ounces per yard, of both single and twisted filling. A 1200horse-power steam plant costing about \$26,000 will be installed for power. Ail the machinery will cost about \$300,000. About 220 persons will be employed, about 13,000 pounds of cloth will be the daily output, and the plant is expected to be completed by January 1. The company will erect 100 cottages for its operative each house to be feaced in on a lot 90x150 feet, so as to provide ample space for cultivating garden foods and flowers.

Machinery will be furnished as follows: 1500-horse-power cross-compound engine by C. & G. Cooper Co., Mt. Vernon, O .: boilers and accompanying equipment by R. D. Cole Manufacturing Co., Newnan, Ga.; pickers by Kitson Machine Shop, Lowell. Mass.: earding and spinning by Whitin Machine Works, Whitinsville, Mass.; looms and warpers by Draper Company, Hopedale, Mass. J. E. Dunson is president of the Dunson Mills, the capital stock being \$500,000. J. E. Sirving of Greenville, S. C., is the architect-engineer in charge

Guadalupe Valley Cotton Mills.

The Guadalupe Valley Cotton Mills is the corporate name of the Cuero Cotton Factory of Cuero, Tex., under the reorganization recently outlined. This new company will expend \$50,000 for new ma-

a 60x100-foot addition to the main buildings and build an additional warehouse and opening-room, besides adding nicker and carding and spinning machinery to increase daily capacity to about 5000 pounds. It will overhaul all the old machinery and have it ready for operation with the new equipment, which has been contracted for, by September. Building contracts will be let during April. The enlarged plant will have 8000 spindles and 160 looms for manufacturing heavy sheetings and drills, light and heavy duck, both single and twisted filling.

New England Mill Men.

At the annual meeting, April 12-13, of the National Association of Cotton Manufacturers at Boston the paper subjects to be discussed will include arbitration on cancellation of orders, co-operation between bureau of the Federal Government and textile manufacturers, efficient buying of raw material, how the cotton industry has safeguarded its employes, law of moisture in cotton, power from producer gas, production of cotton in the Honolulu Islands, renaissance of the waterfall, standardizing the artificial illumination of cotton mills, textile education from a manufacturing standpoint, transmission of power by ropes and uniform contracts,

A \$15,000 Knitting Company.

The organization of a \$15,000 stock company to install hosiery knitting machinery at Morganton, N. C., is planned by R. B. Moore and T. L. Sigmon of that city.

Union Cotton Bagging Corporation.

The Union Cotton Bagging Corporation of Norfolk has been chartered with a capital stock of \$300,000, has acquired and will continue the plant of the Margolius Company and will establish a branch at Spartanburg, S. C. It will probably be in the market for additional ery. Officers have been elected as follows: President, R. Margolius of Norfolk; vicepresident, Lawrence S. Holt, Jr., of Burlington, N. C.; secretary-treasurer, J. Harper Erwin of Durham, N. C.

United Hosiery Mills.

The United Hosiery Mills of Anniston has been organized with an authorized capital stock of \$100,000. The company has a 65x100-foot brick building, and will install 65 knitting machines, which have been purchased. Its daily capacity is to be 250 dozen pairs of hose, and about 25 operatives will be employed. S. C. Mead is president; L. V. Moore, secretary; J. W. Hellings, treasurer. This is the plant mentioned last week as to be established by S. C. Mead.

Corsicana Cotton Mills.

The Corsicana Cotton Mills, Corsicana, Tex., has reorganized with a capital stock of \$100,000 and will resume manufacturing flat cotton duck. This company has 5000 spindles and 150 looms. Its officers are: President, G. J. Heflin; vice-presidents, C. H. Allyn and J. E. Whiteselle; secretary-manager, M. E. Woodrow; treasurer, E. E. Sheehey; superintendent, O. M. Peters.

Westervelt Mills.

Last week's statement that the Westervelt Mills of Greenville, S. C., intended to award buildings contract on April 3 was an error. That company awarded its buildings contract in February, as then stated, and the work of excavation is well under way. It is erecting structures that will be equipped with 50,000 spindles and 1200 looms for manufacturing India lawes and linons. This is a \$1,000,000 company and J. I. Westervelt is its president, Other details have hertofore been announced.

A \$150,000 Woolen Mill.

It is probable that \$150,000 will be the cost of the woolen mill mentioned last week as proposed for San Angelo, Tex. The Chamber of Commerce is not as yet prepared to announce the names and addresses of the parties contemplating the plant.

Increasing Capital by \$150,000.

The Greer Manufacturing Co. of Greers, S. C., will increase its capital stock from \$200,000 to \$350,000. It is now operating 10,240 ring spindles and 280 broad looms on the production of sheetings.

Textile Notes.

The Mineola Manufacturing Co., Gibsonville, N. C., has awarded contracts for 100 box looms to replace old looms, and for three napping machines.

J. M. Bruner, secretary of the Oconec Mills Co. of Westminster, S. C., has also been elected secretary of the Middleburg Mills of Batesburg, S. C.

It is rumored that the Calhoun Mills of Calhoun Falls, S. C., expects to increase to 40,000 spindles in the future. The company now has 25,600 ring spindles, 600 broad looms, etc., driven by electric power,

The Springfield (Tenn.) Woolen Mill Co. will erect an additional building costing \$2500, and has awarded contract to E. T. Lewis & Co. of Nashville. The company's mill now has 2640 spindles, 42 loops, etc.

The Elmore Manufacturing Co., Benjamin F. Elmore, manager, Demopolis, Ala., expects to resume manufacturing within 30 days. Its plant of 4000 spindles will employ 125 operatives and was mentioned last week.

MINING

J. B. B. Coal Co.

The Manufacturers Record has a statement from H. M. Jewett of Jewett, Bigelow & Brooks, Detroit, Mich., outlining his firm's change of operations in the Pocahontas field of West Virginia. Mr. Jewett writes as follows:

"We have consolidated all our mines in the Pocahontas field, and they will hereafter be known as the J. B. B. Coal Co., with a capital stock of \$500,000. The following are the officers and directors: H. M. Jewett, Detroit, Mich., president; Edward Page, Boston, vice-president; Robert Grant, Boston, treasurer; W. R. Ballantine, Boston, secretary; J. W. Bigelow, Twin Branch, W. Va., general manager.

"The mines were consolidated and a new company formed on March 1, and the New England Coal & Coke Co. of Boston purchased an interest April 1.

"The New England Coal & Coke Co., which is a subsidiary company of the New England Gas & Coke Co., Boston, has been the New England agent of Jewett, Bigelow & Brooks mines, in the Pocahontas field, for the last two years, and has used the coal for the general trade in its territory during that period.

"Steps will immediately be taken to increase the production of the mines, and within the next few months should be on a basis of production of considerably over 1,000,000 tons per annum.

"The New England Coal & Coke Co. will by this arrangement have the output of the mines, which is consigned to tidewater, of the highest class smokeless coal; its own steamer and barge transportation on the Atlantic; its own storage docks in the New England State, and will, therefore, be in a position to supply coal from its mines to the consumer.

"Jewett, Bigelow & Brooks of Detroit, under this arrangement, will ship coal to all rail trade in the South and West, the Great Lakes and tidewater outside of the New England States."

Oklahoma's Minerals.

The work of the Oklahoma Geological Suvey is attracting much attention, not only in the State, but all over the South. With a vast amount of undeveloped mineral resources, this new State is today manufacturing very little. The survey, although it has been organized only a little more than two years, has already been able to locate many of these dormant minerals and to interest capital in their development.

The last Legislature made liberal appropriations for continuing this work. The bill signed last week by Governor Cruce carried approximately \$19,000 a year for the next two years.

Director Charles N. Gould has made tentative plans for four field parties the coming summer, including work in the oil fields, in the Wichita Mountain region and along the Pennsylvania-Permian contact. A series of economic bulletins dealing with the mineral resources of Oklahoma is being prepared. Two numbers have already been issued. Reports are in press on oil, gas and asphalt, on structural materials, on the mineral resources of the Arbuckle Mountains, and on clays, and reports on coal, lead and zinc, road materials, gypsum and salt will soon be submitted for publication.

These bulletins can be obtained by sending three cents for postage to the Geological Survey at Norman, Okla.

Albemarle Slate Corporation.

The Albemarle Slate Corporation, which was chartered recently with a capital Springs, Fla.

stock of \$2,500,000, plans to develop 457 acres of land at Esm ont, Va. It intends to install machinery for an ultimate daily output of 500 squares of slate, and on April 15 will open bids for the mining machinery. This equipment will include channelers, drills, wire saws for stone steam and belt-driven air compressors water-tube boilers, double-drum hoists and derrick fittings. Organization has been effected, and the officers include George Norris, president; A. S. Rickwood, vicepresident; George Blow, manager-all of New York, with offices at 55 Liberty street. Mr. Blow can be addressed either there or at the New York office.

Developing 500,000 Acres.

The American Timber & Coal Co. telegraphs the Manufacturers Record that the company is now developing 500,000 acres of Kentucky and Tennessee land by making coal leases and selling stumpage. This company has organized with offices at 517 Johnston Building, Cincinnati, and it will also engage in colonizing and general land title work. Its lands are on the Cumberland plateau, in Cumberland, Bledsoe, Fentress, Morgan, Overton and Rhea counties, in Tennessee. The company has a capital stock of \$5,000,000, and its officers are: President, E. R. Buck: vicepresident, George W. Platt; secretary, Wm. II. Durham; treasurer, Dr. Thoma M. Stewart; general manager, George II. Black.

Kentucky-Tennessee Phosphate Co.

The Manufacturers Record is advised that Ed. Strudwick (not Stridecock, as stated last week) of Richmond, Va., is president of the Kentucky-Tennessee Phosphate Co., which was chartered with \$500,000 capital stock. This company has not as yet announced details of its development plan.

Rock Shipments Break Record.

Shipments of phosphate rock from Florida have been breaking records, as is seen by the following statement from the Tampa Tribune:

"Phosphate shipments during March from Tampa and Port Tampa show the largest total for any one month in the history of the port. The number of tons shipped from Port Tampa shows an increase over the same month to the extent of 14,000 tons, while at the Seaboard elevator the amount shipped during the past month was more than double that shipped a year ago.

"March, 1910, the Seaboard elevator shipped 13,550 tons of rock; March, 1911, the month just passed, it shipped 50,772 tons of phosphate, nearly four times that amount.

"At Port Tampa the Atlantic Coast Line shipped during the month of March, 1910, 70,339 tons. But in the month of March, this year, it shipped \$4,000 tons, or 13,661 tons more than the same month of the previous year.

"During the past month the Seddon Island terminals shipped more than it has for any month in its history. February. 1911, was the banner month until the March figures were totaled, this month beating the previous one by 10,130 tons.

"April at the Seaboard elevator promises to be a good one also. To begin with, the Leyland liner Indian has berthed there today to load 5000 tons of phosphate.

"Every ton of phosphate exported from Seaboard or Coast Line terminals averages a valuation of \$5. This means that the value of the mineral exported from Tampa in March totaled \$673,860."

A co-operative colony is to be established on 24,000 acres of land near Crystal Springs, Fla.

LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

Champion Lumber Co. Chartered With \$5,000,000 Capital Stock.

An extensive and important timber and railway development enterprise for North Carolina to be undertaken by capitalists already interested in that State has been announced. The essential details may be briefly outlined as follows: The Champion Lumber Co. of Canton, N. C., has been chartered with a capital stock of \$5,-000,000, and has purchased for develop ment over 100,000 acres of Haywood county lands centering about Canton, with accompanying mill and railway properties. These include the Pigeon River Lumber Co., with 60,000 acres in the northern part of the county; the Champion Fiber Co.'s Sunburst tract of 40,000 acres on the headwaters of Pigeon River: the Tennessee & North Carolina Railroad, now extending from Newport, Tenn., to Crestnont, Tenn., and surveyed for extension to Canton, and the Pigeon River Railroad Co., whose railway is now graded between Canton and Sunburst. The new corporation plans to rebuild the Pigeon River Lumber Co.'s mill at Crestmont and to in stall additional machinery, increasing its daily output to 175,000 feet of lumber. and plans to construct between Canton and Sunburst a large mill for manufacturing hardwood lumber from the timber of the Sunburst tract. Plans are also being considered for extending the railways. The Champion Lumber Co. officers in clude: President, R. F. Whitmer, who is of Wm. Whitmer & Sons, Philadelphia; general manager, J. Arbogast of Asheville, N. C., who has represented Whitmer interests in North Carolina for several years. Others interested in the enterprise are Messrs. Peter G. Thompson, president of the Champion Fiber Co., Canton, N. C.; J. B. Leach & Co. of New York, Clark L. Poole & Co. of Chicago, and Trimble, De Witt & Co. of New York and Chicago.

To Develop 90,000 Acres.

The MANUFACTURERS RECORD has received a telegram outlining the facts as to the Mt. Mitchell (North Carolina) timber sale and development enterprise regarding which various reports are current. The telegram states in effect that S. Montgomery Smith of Asheville, N. C., has purchaser 19,000 acres of Yancey county timber lands and sold the spruce on 8000 acres to Charles Edgar of Evanston, Ill., at \$10 per thousand in the log delivered at mill. This plant will be erected, and is to have a daily capacity of 75,000 feet of lumber. It will be a band-saw mill. An Asheville company is organizing to purchase and develop 10,000 acres of hardwood timber land on Mr. Smith's Yancey county tract, and it is stated that a sash and door factory, a hardwood flooring plant, a stave mill and a pulp and paper mill are practically assured.

A \$500,000 Company.

The Allnite Coal & Lumber Co. of Richmond, Ky., has been chartered with a capital stock of \$500,000 by John E. Lynch, John C. Chenault and Joseph

The Statesville (N. C.) Cotton Mills will add 3000 spindles, with accompanying carding machinery, and contract has been awarded for the new equipment. This company is now operating 10,000 ring spindles, 2000 twister spindles, 180 broad looms, etc., on sheeting and yarn production.

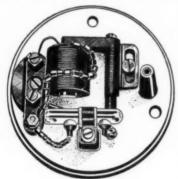
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MECHANICAL

The "Limitator."

A device for limiting the current demand on metered customers or for use as a flat rate controller is illustrated herewith. The apparatus prevents the customer using more than a certain amount of current by causing the light to flicker rapidly as soon as any excess load is turned on. The device consists of a small horizontal vacuum tube containing two mercury cups on the lower side, with leading-in wires sealed into the glass and making contact with a globule of mercury in A soft iron bar or needle rests on the globules of mercury and normally completes the electrical circuit between the two leading-in wires. Above one end of the needle is a small electro-magnet in ries with one mercury cup. The height of the magnet above the needle is adjusted by a set screw and slot in its frame. The instrument is placed in one leg of the circuit, the current passing first through the magnet, then to the left-hand mercury cup through the needle to the right-hand cup. and thence to the load. The action is as follows: When the load exceeds the predetermined limit the magnet lifts the needle away from the mercury cup and breaks the circuit. This interrupts the current in the magnet, which allows the needle to drop back in the cup and the cycle is repeated, producing a continuous flickering of the lights as long as the ex



THE "LIMITATOR."

cess load is maintained. The adjustment for different limits is made by simply raising or lowering the magnet until the lights remain steady on the desired load, but will flicker if another lamp is added. When this adjustment is once made it will remain accurate to within a few watts indefinitely.

The size illustrated can be adjusted for loads up to three amperes. For currents of from three to ten amperes an instrument of similar design is used in which the needle is omitted and a horizontal column of mercury completes the circuit. When an excess load is applied the magnet in the larger type tilts up the tube and the mercury runs down to one end, thereby breaking the circuit for an instant until the tube is dropped to the horizontal position again. With this size the lights go out and light alternately, keeping up this operation indefinitely. It is therefore posible to use the "Limitator" for blink elec-

It can be used on either direct or alternating currents of any ordinary lighting voltage without special adjustment. Installed as a substitute for meters, it not only saves the entire expense of meters, reading and maintenance, but greatly reduces the cost of equipment, bookkeeping and billing. It adds but little to the present meter expense when used in series with a meter for charging by the kilowatt hour on a demand rate basis.

Gunther Building, Baltimore, handles this device for the manufacturer.

Terra-Cotta Specifications.

A recent address to the Architectural League of Atlanta contained timely "pointers" of interest as to terra-cotta specifications. It was made by W. C. Hall, Jr., district manager of the Atlanta Terra-Cotta Co. of East Point, near Atlanta, and of the Atlantic Terra-Cotta Co.. 1170 Broadway, New York. He said in part.

"As the architect's specification is the first thing we manufacturers run up against when we take hold of a piece of work, let us start with that now. course, you architects specify that the material shall have the proper alignment; you expect to get it, and so you should. You then specify that the color should be uniform: this is disputable. Terra-cotta cannot be burned to an absolute uniformity of color. The architects who have made a study of terra-cotta and who are using tons of it every day on their work, and who know what its values are, often ask us not to get too uniform a shade.

"Now, we often read in a specification that the terra-cotta must match the face brick. Wouldn't it be fairer to ask the brick man to match the terra-cotta? Bricks are sorted for the color after they are burned; they are a stock product. Terra-cotta is made to order, and we have only one chance for a color. The terracotta companies are working with their chemists to develop new colors and new shades, but the development takes time: we cannot go ahead at a moment's notice and match every odd color of face brick. Do you really think it a good idea to match the brick, anyhow? Put the piece in the building 50 feet in the air: it matches the brick all right; it looks exactly like the

"We are every day up against the 'semiglaze' specifications. Remember, there is no such thing as 'semi-glaze' for surface The surfaces are as follows: Standard. matt, full glaze and polychrome. If you specify semi-glaze, the result is that you put the man who figures the job in a quandary.

"It takes eight weeks to make a good piece of terra-cotta. As soon as we re ceive the necessary drawings they are imnediately sent to the drawing office, where three-quarter-inch working drawings are made and sent to the architect for approval, and finish shop drawings to a shrinkage scale are made. If there is any nodeling on the job the modeler takes hold. From there it goes to the plaster shop, where the molds are made; from the plas ter shop to the pressing shop, where the clay is pressed entirely by hand labor into the molds. After the pieces are taken out of the molds they are sent to the drying floors, and there thoroughly dried; this is a slow process, as fast drying will crack the material. After a piece is dried it goes to the sprayers, where the color is pneumatically sprayed on with an arrangement similar to the ordinary atom izer; then from the sprayer it goes to the kilns for burning. This takes in all from 12 to 14 days; that is, the burning and unloading. From the kilns it goes to the rubbing bed, where the joints are ground true, and then to the fitting shop; here the work is laid out and carefully fitted to sizes shown on drawings, numbered and packed in cars for destination. So you see where the eight weeks go.

"Polychrome terra-cotta is by far the ost interesting problem we have. It is a new development, and one which has given the architect a new and fascinating tool to work with, and one which has The Southern Engineering Corporation, lifted the terra-cotta manufacturer from a load of logs in the Ozark Mountains, year of \$170,000 upon a capital of \$150.

the place of the ordinary and prosaic manufacturer of a cheap substitute for stone.

"Polychrome means many colors, and that is exactly what the terra-cotta people have to offer the architect today-any color he wants. These colors, burned in clay as they are, have a softness and a texture that it is impossible to get in any other material. The architect of today can now use color on exterior work without fear of its fading. You have a material to work with that will enable you to give to our commercial and practical-looking office buildings the life and snan that is so apparent in the Old World cities and so woefully lacking in our own. Don't be afraid of it: use color as much as you can, but study it out first, and then go at It has met with favor in the North, but the South is where it belongs, with all of its outdoor life. Use polychrome terracotta, and see how really interesting it is,

"If you will remember some of these don'ts you will simplify the terra-cotta proposition: Don't ask us to match every brick. Don't specify semi-glaze. Don't hold up details until the last minute. Don't ask us to furnish iron. And lastly, when you are on the job, judging as to color, remember to be reasonable.'

Avery Traction Engine Uses.

The Avery traction engine is adapted for various useful purposes that will in- of this booklet, the American Rolling Mill

These instances of the usefulness of the equipment are only two of many that could be named, such as sawing lumber, hauling lumber, handling trees and logs, threshing. plowing, stacking hay, tearing up old macadam, hauling crushed rock for road con-The Avery engine is built struction, etc. by the Avery Company of Peoria, Ill. The company also builds farm wagons engines. threshers, steam plows, etc., and manufactures agricultural implements.

American Ingot Iron.

Manufacturers who use iron for the production of sheet metal work, roofing, siding, culverts and other articles in constant demand throughout the country are invited to investigate American ingot iron, This iron is made by the American Rolling Mill Co. of Middletown, O., and it is in large demand both in this country and abroad because of its qualities, American company especially emphasizes the rust-resisting features of its ingot iron in a publication it has recently issued. This publication is a booklet entitled "The Proof-American Ingot Iron Rust Resisting," and it contains a complete argument on the corrosion of iron and steel, together with useful tables relating to sheet metal work, black and galvanized sheets, etc. Desiring a wide distribution



AVERY ENGINE HAULING LOGS

w represents the Avery double under- poses mentioned.

terest operators in the South, two of these. Co, has decided to send it free to inquirers purposes being illustrated herewith. One who are interested in iron for the pur-



AVERY ENGINE PULLING STUMPS

mounted engine engaged in stump pulling, in this case the stump having been pulled. Valley Fruit Growers' Association, which

The second view is an Avery undermounied is to change its name to the Virginia Fruit engine about to ford a creek while pulling Growers' Association, did a business last

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Construction Department

TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following

EXPLANATORY

The Manufacturers Record seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and in some items it is found advisable to make statements as "it is reported" or "rumored," and not as positive information. If our readers will note these points they will see the necessity of the discrimination. always glad to have our attention called to

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should al-ways be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, al-though it is inevitable that some failure by the postal authorities to deliver mail to new erns will occur

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter writnems reported in these columns a letter writern specifically about the matter reported will receive better and quicker attention than a circular. In most instances a return postal card or addressed and stamped envelope should be enclosed with letter.

"In correspondence relating to in-formation published in this depart-ment, it will be of advantage to all concerned if the Manufacturers Rec-ord is mentioned."

The Daily Bulletin of the Manufac turers Record is published every busi-ness day in order to give the earliest possible news about new industrial. commercial, building, railroad and commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invalu-able to manufacturers, contractors, engineers and all others who want to engineers and all others who want to get in touch at the earliest moment with new undertakings, or the en-largement of established enterprises. The subscription price is \$25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription the contract period to the Daily Bul-letin is included.

BRIDGES, CULVERTS, VIADUCTS

Ala., Birmingham.—Jefferson County Board f Revenue awarded contract at total of \$10,000 for construction of 10 reinforced con rerete bridges, two steel bridges and two sub-structure steel bridges; structures will cost from about \$400 to \$1500 cach. (Recently mentioned.)

D. C., Washington.—Commissioners District of Columbia (Cuno II, Rudolph and others) awarded contract to Penn Bridge Co., Beaver Falls, Pa., to repair and strengthen bridge across Rock Creek Park at Calvert St.; esti-mated cost \$24,000, of which Congress appro-priated \$12,000 and railway company a similar (Recently mentioned.)

Fla., Brooksville.-Town will vote April on \$2000 of bonds for bridge construction Thaxton, Town Clerk. (Recently

Fla., Orlando.—Orange County Com ers contemplate construction of drawbridge across St. Johns River at Cook's Ferry.

Ga., Rome.— W. M. Gammon, chairman Board of Commissioners Roads and Revenue, Floyd county, advises that concrete steel bridges over all streams and concrete cul-verts over all drains will be constructed in connection with proposed road from Rome to Chattanooga; construction by convicts. (See "Roads and Streets.")

Ga., Thomasville.—Thomas County Commissioners decided to replace all wooden bridges with steel structures.

construction of \$35,000 steel reinforced con-

Md., Denton.-Talbot and Caroline Co Commissioners awarded contract to Ye Bridge Co., York, Pa., for construction 70-foot steel drawbridge over Chopta River. (See "Road and Street Work.")

Md., Towson. — Andrew J. Miller & Co., Dundalk (P. O. Sparrows Point), Md., have contract and begun construction of reincontract and begin construction of refi-forced concrete bridge over Back River at Eastern Ave.; structure will be 1100 feet long and will have concrete driveway and two sidewalks; cost about \$34,000; have pur-chased material and machinery; Henry G. Shirley, county roads engineer. (Previously

Mo., Elvins.-City will construct across Flat River; bids will soon be Address The Mayor.

Mo., Warsaw.-Osage, Ozark & Springfield Railway Co. (electric) contemplates erection of bridge across Osage River in connection with proposed line from Warsaw to Springfield: also erect creek crossings. care of E. E. Trippe, postmaster, Fristoc, Mo.

Tex., Lampasas.—Lampasas county voted issuance of bonds for construction of bridge across Lampasas River to cost about \$7000. County Commissioners will receive bids April 20 for construction. (Recently men-

Tey Smithville - Smithville district of Bastrop county will vote on issuance of \$100, 000 of road bonds. Address Precinct Com missioners.

Tex., Wichita Falls,-Wichita county votes to of bonds for construction of wagon across Wichita River to cost about Address County Commissioners. (Recently mentioned.)

Va., Fredericksburg. — Irving D. Ireland, consulting engineer of Virginia Equipment & Supply Co., 205 Bank of Richmond Bldg., Richmond, Va., states that his company is lowest bidder for erection of 75-foot beam bridge across Hazel Run; contract not signed; Mr. Ireland now designing arch of 50 foot span (preferred by Commissioners), to cost about \$2500.

Va., Petersburg.-Matoaca Bridge Constru Va., Petersoning.—Matoaca Dringe Construct tion Co. will organize to construct two-span steel toll wagon bridge cross Appomattox River, connecting Matoaca in Chesterfield county and Ferndale in Dinwiddle county: structure will be 250 feet long, 16 feet wide and of 12 tons capacity; approaches will be oak trestle; cost \$7500; date of opening bids not set; W. M. Martin, secretary Chamber of Commerce, may be addressed. (See "Machinery Wanted."

CANNING AND PACKING PLANTS

Fla., Cocoanut Grove.—Dade County Citrus Association Sub-Exchange, W. T. Carter, manager, Miami, Fla., will erect packing-house for Cocoanut Grove Association; included in equipment will be machine capable of manufacturing 800 or 900 crates daily.

Ky., Salvisa.-Mercer Canning & Manufa Ky., Salvisa.—Mercer Canning & Manufac-turing Co. incorporated with \$4000 capital stock: succeeds Salvisa Canning & Preserv-ing Co.; has buildings; will also manufac-ture brooms; W. K. Tevis, president; E. Gill, vice-president; J. A. Kennedy, secretary; M. E. Walker, treasurer

Tex., Lufkin.-Lufkin Canning & Preser Tex., Lufkin.—Lufkin Canning & Freserv-ing Co. has organized with T. W. Largent president, R. B. Bledso vice-president, L. H. Gray secretary, J. M. Singleton treasurer; has machinery; daily capacity 5000 to 10,000 cans of fruit and vegetables. (Recently re-ported incorporated with \$63,000 capital

CLAYWORKING PLANTS

Tex., Marshall.-Marshall Brick Plant, W H. Pugh, general manager, will soon begin erection of proposed brick plant; contem-plated capacity at start, 50,000 to 60,000 bricks daily. (See "Machinery Wanted.")

COAL MINES AND COKE OVENS

Ala., Birmingham. — American Coal Corporation incorporated with \$5000 capital stock; E. J. Snuwer, vice-president; C. C. Covington, secretary-treasurer.

ridges with steel structures.

Ky., Paducah.—Board of Public Works will rated; leased property of Empire Coa ceeive sealed bids until 10 A. M. April 17 for Mining Co.; will improve and operate.

T. Rutland is president: A. V. Rutland, genand N. M. Rutland, secretary arer; all of Hopkinsville, Ky

Ky., Richmond.—Allnite Coal & Lumb o, chartered with \$500,000 capital stock John E. Lynch, John C. Chenault and Jo

Tenn., Chattanooga.—Patten Coal Mining Co., John E. Patten, president (recently noted incorporated), was organized to hold coal lands; no developments contemplated

W. Va., Danville,-J. F. Rison and as purchased coal lands for \$360,000 and

W. Va., Moundsville.-Ben Franklin Coal ort, Pa., will develop coal min

W. Va., Wellsburg.—Lewis-Findley Coal Co., W. A. Lewis, president, Pittsburg, Pa., increased capital stock from \$300,000 to \$1,000,000; purchased additional acreage of of coal land: daily output 2000 tons of coal; machinery purchased.

CONCRETE AND CEMENT PLANTS

Ala., Ragland.-Clarence W. Wiley, chief Ala., Ragiand.—Charence W. Whey, chief chemist Atlantic & Gulf Portland Cement Co., advises Manufacturers Record as to ad-ditions, etc.; additions to cost about \$125,000 and give daily capacity of 2400 barrels; stone and give daily capacity of 2400 barrels; stone storage, capacity 5000 tons crushed limestone, will be equipped with belt conveyors and is nearing completion; present capacity clinker storage to be 50,000 barrels, with arrange-ments for 25,000-barrel extension; new machinery (mainly on ground) includes two rotary kilns and three installations of five grinding units. Of the two buildings under construction, 40x70-foot baghouse will be of steel and concrete, with walls of plaster expanded metal; capacity 15,000 bags daily; laboratory, 30x45 feet; two stories; freproof throughout; concrete walls and floors; sec-ond-story floor reinforced and supported on ond-story floor reinforced and supported on concrete beams, with matched wood floor on top; company will erect additional number of five-room cottages; all building and ma-chinery contracts let; contemplates complet-ing improvements by September 1. (Plant previously noted and described.)

Ga., Aragon. - Bald Mountain Portland fement Co. contemplates erecting plant with daily output of 1000 barrels Portland cement daily output of 1909 barrels Fortiand cement; plan to increase in future to 5000 barrels; details of buildings, machinery, etc., have not been determined. Address care of J. L. Bass, Rome, Ga. (Lately reported incorporated with \$1,000,000 capital stock, etc.)

COTTON COMPRESSES AND GINS

Scranton, — A. P. Kincade & Son d contract to McRae & Fischer Bros. awarded contract to archae to for erection of cotton gin; two-story, foot, and one-story, 14x24-foot buildings; construction; cost \$1000; cost of machinery, 5250; daily capacity, 35 bales of cotton. \$5250 : daily

Tex., Brenham.—William Seidel will erect ofton gin to be operated by electricity; ma-hinery ordered.

Tex., Mission.-Mission Farm Co., O. Gregory, president, is receiving bids on gin machinery, engine, boiler, etc., for plant re-cently mentioned; daily capacity, 80 bales.

COTTONSEED-OIL MILLS

Ala., Montgomery.—Southern Cotton Oil Co. will rebuild two seedhouses, hullhouse and fertifizer plant reported burned at loss of about \$75,000; reported that new build-ings will be of brick or reinforced concrete.

Okla., Holdenville.—Farmers & Merchauts' Cotton Oil Co. incorporated with \$39,000 capi-tal stock by J. J. Armstrong, R. F. Jackson, R. M. McFarlin, C. C. Leach, C. L. Benson, T. T. Godfrey and L. T. Samm

S. C., Inman.-Inman Oil Mill has perfe begin construction of plant; capital stock \$25,000; C. C. McMillin, president and treasurer. (Recently noted.)

Co., J. B. Liles, president, co stalling additional machinery.

DRAINAGE AND IRRIGATION

Ark., Wilmot.—Board of Drainage Commis-ioners, W. E. Barnes, chairman, will let ontract June 1 to dig drainage canal and laterals in Ashley county; about 700,000 cubic

yards; R. B. Eggelston, engineer, England, (See "Machinery Wanted."

Fla., Tallahassee.-Southern States Land Fla., Tallahassee.—Southern States Land & Timber Co. (Pearl Wright, president), Model Land Co., Florida East Coast Railway (J. E. Ingraham, vice-president, St. Augustine, Fla) and R. J. Bolles are conferring with Governor and trustees of increased improvement, fund in page of the conferring with the confe ferring with Governor and trustees of in-ternal improvement fund in regard to con-struction of secondary canals previous to completion of 215 miles main canals; sec-ondary canals are to be cut through rivers one and side of The Everglades directly into ocean; land companies agree to contribute \$25,000. Mr. Bolles \$25,000 and trustees \$25,000; this plan, if adopted, will change somewhat order of work on construction of main canals now being undertaken under contract awarded to Furst-Clark Construction Co., Fidelity Bidg., Baltimore, Md. (Contract for drainage of The Everglades was previously reported awarded to Furst-Clark Construction Co., contract approximating 25,000,000 cubic yards of work and amounting to about \$3,000,000.1

La., Abbeville.-Maronne Drainage Distric: ission awarded contract to Caesa: sard, Gueydan, La., to construct drainage canal.

La., Adeline.—Cypremort Drainage Board vill receive bids until April 15 for construct ing canal; about 129,000 square yards; W. F. Giles, secretary. (See "Machinery Wanted.")

La., New Orleans.-New Orleans Netherlands Company organized by New Orleans and Chicago (Ill.) capitalists for reclamation of 5000 acres purchased in St. Charles parish, between Bayou des Allemands and Lake Ca touche; property is being developed by construction of dykes and drainage canals, and will be divided into tracts and sold to Holland families who will be brought from Michigan; Cornelius J. Tom is president; William vice-president, and D. W. Jellma

Tex., Del Rio.-D. B. Chapin, Chapin, Tex. C. K. McDowell and Jones Pennington, Del Rio, Tex.; W. W. Collier, San Antonio, Tex. and others have organized company to condams across Pecos and Devil's rivers and utilize water for irrigation and power purposes; combined reservoirs, it is estimated, will contain about 2,000,000,000 cubic feet of water; power which it is proposed to generate is to be transmitted to San Antonia and other nearby cities; civil engineers have been engaged, who are now taking levels on

ELECTRIC LIGHT AND POWER

Ga., Fairburn.—City has issued \$10,000 of bonds for construction of electric-light plant. Address The Mayor. (Previously mentioned.)

N. C. Durham.-Southern Power Co., Char N. C. Durham.—Southern Power Co., Charlotte, N. C., purchased four acres on which to erect auxiliary steam plant for distribution of power in Durham and vicinity; station is to have capacity of about 10,000 horse-power. (Previously mentioned.)

N. C., Salisbury.—William J. Oliver of Knoxville, Tenn., and associates purchased control of Salisbury-Spencer Street Railway Co., with its properties and franchises, and the electric lighting and power systems of Salisbury, Spencer and Concord, and the gas plants and distributing systems at Salisbury and Spencer; purchase said to involve \$1. extensive improvements plated.

Tenn., Memphis.-City petitioned Legisla ture for authority to issue about \$1,000,000 of bonds for construction or purchase of elec-tric-light plant; Heiskell Weatherford, City

Tex., Alvin.—Alvin Ice. Light & Power Co. ncorporated with \$15,000 capital stock by V. R. Stockwell, S. O. Smith, B. S. Williams and others.

Tex., Granbury.-Granbury Water, Light, Ice & Power Co. incorporated by R. Vickery and others. (See "Water-Works.)

Tex., Longview.-City will vote bond issue April 11 for erecting electric-light poles on business streets, about 30 to 40 feet apart. Address The Mayor.

Va., Williamsburg.-William and Mary Col-Va., Williamsourg.—William and Mary College awarded contract to R. H. Richardson & Son, Hampton, Va., to erect proposed power-house; building to be of brick and cost \$5000; construction begun.

W. Va., Brandonville.—Pittsburg Hydro-Electric Co., F. W. Scheidenhelm, engineer in charge, Connellsville, Pa., plans construc-

noted as reported to be built by F. R. Garver oorted to be bune of od, W. Va.) and associates; no details. (Company preof Kingw ciates; not adv to anno entioned.)

FERTILIZER FACTORIES

Md., Baltimore.-D. B. Martin Company advises that new buildings will not be erect ed, as explosion only partially destroyed one building, which will be repaired. (Lately

Miss., Meridian-Acidulating Plant.-A. H. George Company will be ready in fall with announcement of plans for proposed acidu lating plant. (Recently noted.)

FLOUR, FEED AND MEAL MILLS

Mo., Kansas City.—United States Stock Food Co. will erect mill and warehouse: mildings will be one and five stories, 65x 10 feet and cost \$20,000.

Mo., St. Joseph.-U. S. Grain, Flour & Feed o. incorporated with \$20,000 capital stock by W. Kramer, Willis Kramer and J. E.

Webb City.-Weaver Milling Co. erporated with \$10,000 capital stock by C. B Guinn, A. H. Gibson, C. A. Fisher and other

Mo., Ozark.-Ozark Water Mills increased mital stock from \$25,000 to \$29,500.

W. Va., Charleston.-Brown Milling & Produce Co. takes over established and equip Co. takes over established and equipped of J. A. Carr Feed & Produce Co.; W. Brown, president and manager; T. M. rson, vice-president, Petersburg, Va.; Mendenhall, secretary; Edward Cal-R. (Recently reported in cornerated with \$45,000 capital stock.)

FOUNDRY AND MACHINE PLANTS

Ala., Sheffield-Plows and Harrows,-A. P. McKay contemplates, it is reported, estab nt of plant to manufacture

Md., Baltimore.—Baltimore Gas Appliance & Manufacturing Co., H. W. Hunter, president, awarded contract to Fidelity Construction Co., 64 Knickerbocker Bldg., Baltimore, tion Co., 64 Knickerbocker Bidg., Baltimore, to remodel former gas plant at Bayard and Wicomico Sts., which it has leased to equip for manufacture of gas appliances; annual output will be 30,000 gas ranges, 15,000 gas heaters, etc.; offices at plant. (Company was reported in January as organized with \$300,000 capital stock, etc.)

Miss., Vicksburg-Iron Foundry and Garage, B. J. Robinson has plans by William Stanton for Iron foundry and garage combined: building will be combination brick and steel and cost about \$20,000; bids will soon be in-

Mo., St. Louis-Tire Machinery. incorporated with \$50,000 stock by Edward A. Hankey, William Wesley and Conrad H. Bothwell; to manufacture machinery used in treating tires and to man-ufacture compound called near-air, used as an air substitute in filling tires.

Mo., St. Louis-Steel Bars, etc.-Compa rganized with \$350,000 capital stock by liam E. Guy of St. Louis; Thomas R. Akin. Chicago, III., and others to establish rolling mill for manufacturing hard-steel bars, an-Chicago, III., and others to establish forming mill for manufacturing hard-steel bars, an-gles, channels, concrete reinforcing bars, etc.; plant will have capacity of 48,000 tons ally : Mr. Akin elected president.

Mo., St. Louis-Motors, Engines. zelle Motor Co. incorporated with \$10,000 can ital stock by Benjamin Brozelle, D. Houser, Charles H. McKee, Z. E. Hense and John C. Porter.

Mo., St. Louis-Engines, etc.-Fulton Iron Works will enlarge plant, doubling capacity; will purchase six acres in Wellston factory district.

N. C., High Point—Cars.—Southern Car Co. has been reorganized by J. B. Duke, W. G. Brokaw of New York, Abraham Cook and R. W. Morrison; capital stock will be increa and plant enlarged; will manufacture of

N. C., High Point-Car Works.-Southern Car Co. has reorganized and increased ca tal stock to \$200,000; J. Elwood Cox, J. Duke and others are interested.

C., Greenwood-Iron.-D. K. and J. L. Gaffney. Gaffney, S. C., have organized and Iron Foundry and will establish plant for general foundry work.

Tenn., Nashville - Stoves and Ranges. Gray & Dudley Hardware Co., R. M. Dudley, president, increased capital stock to \$1.000 to develop general business and incremanufacturing capacity; now operates stove and range foundries, and a saddlery s factory, all in Nashville.

Tex., El Paso—Drills, etc.—Rock Drill & Ala., Birmingham.—Marshall Land & De-Machine Co., 18th and Blake Sts., Denver. Col., will conduct branch office at El Paso; tal stock; H. L. Marshall, president and gen-

will not build plant. (Recently noted incorporated with \$50,900 capital stock.)

GAS AND OIL DEVELOPMENTS

La., Marksville.-L. A. Dider and Jame

La., Vinton.—Hillside Petroleum Co. incorporated with \$25,000 capital stock; R. A. McReynolds, president and general manager; C. L. Smith, vice-president; J. T. Shelby, secetary-treasure

Mississippi.-Mineral Oil & Gas Co. co Choctaw county. For information address T. H. Smith or H. P. Wyman, 417 Ouachita Ave., Hot Springs, Ark.

Okla., McAlester.—Blx Six Oil & Gas Co. acorporated with \$6000 capital stock by lobert F. Turner and R. S. Briggs of Indianola, and Harry T. Kyle of McAlester.

Okla., Mulhall.—Company has been organ-ized with L. K. Meek, president: R. M. Kincald, secretary, and J. J. Donhoe, treas-urer: will drill for oil and gas.

Okla., Muskogee.-Beenax Oil Co. inco rated with \$5000 capital stock by J. Gardeld Buell, C. E. Buchanan and Ralph W. Leftwich

Barner Co. incorporated with \$125,000 capital stock by A. Morrison, H. A. Bump, W. F Malone and H. A. Hodges of Oklahoma City, and J. T. Beam, Harrah, Okla. Mak

Okla Tulsa -- Princeton Oil & Gas Co. inrporated with \$19,000 capital stock by A. Watts, James E. Duffy and A. E. White.

Tex., Calvert.-Sandy Creek Oil & Develo nent Co, incorporated with \$3550 capital tock by W. C. Taylor, G. K. Proctor, W. R.

Tex Petrolia -Wood River Oil Co inc porated with \$10,000 capital stock l Groves, Claude Groves and W. H. Gard

W. Va., Marlinton,-Marlinton Oil & Gas W. Va., Marinton.—Marinton of a Coaco co. incorporated with \$25,000 capital stock by C. A. Yeager, W. J. Yeager, H. G. Baxter, G. W. Campbell and H. S. Geirhart.

ICE AND COLD-STORAGE PLANTS

Ky., Rochester.—Rochester Ice & Milling to, incorporated with \$10,000 capital stock by Wallace M. Brown, J. P. Hays and Wiliam Willis.

Md., Pikesville,-Pikesville Dairy Co., 1501 1513 Argyle Ave., awarded contract to Alexander W. Brown, Kate Ave., near Garrison. Paltimore, to erect cold-storage warehous at 1511-1513 Argyle Ave.; 24x33 feet; brief and stone; cost about \$2000; plans by Henry Adams, Calvert Bidg., Baltimore.

Mo., Chaffee,-Company has been org with J. S. Wahl, president; William Pleffer korn, vice-president; W. H. Brooks, tary-treasurer, and D. C. Shoptaugh Shoptaugh, manager; to construct ice plant.

N. C., Statesville,-R. A. Cooper and others interested in contemplated erection of cold-storage plants in vicinity of States ville, (See "Machinery Wanted.")

8, C., Camden,—P. M. Kennedy, Jr., man-ager of Camden Water, Light & Ice Co., con-templates erecting ice and cold-storage plant.

Tex., Alvin.—Alvin Ice, Light & Power Co. incorporated by W. R. Stockwell and others. (See "Electric Light and Power.")

Tex., Granbury.—Granbury Water, Light, Ice & Power Co. incorporated by R. Vickery and others. (See "Water-Works.")

Tex., Jasper.—Jasper Ice Co. has or; ith \$12,000 capital stock; John H. resident : J. C. Ward, vice-president ; H. R Pean, secretary; A. P. Cooke, treass will erect 60x60-foot building; ordinary struction: no contract; machinery pur-chased; daily capacity 20 tons of ice. (Re noted)

Va., Charlottesville. - Charlottesville increased capital stock from \$25,000 to

Va., Chase City.—T. G. Boswell reports that ice plant of five to eight tons capacity will be established; company not yet organized; will operate coal and wood yard in connection. (See "Machinery Wanted.")

W. Va., Berkley Springs.—Morgan County Cold Storage Co., F. W. Bartiett, owner, Mannington, W. Va., has plans by David I. Davis, Chicago, III., for cold-storage plant; 66 feet 8 inches by 113 feet; four stories; fire-proof reinforced concrete interior; brick walls; cost \$30,000 to \$40,000.

LAND DEVELOPMENTS

eral manager; Paul A. Savage, vice-president; J. S. Kennedy, secretary-treasurer, Ark., Little Rock.—Factoria Land Co. pur-

chased and will develop 759 acres; contem plates equipment with railroad facilities for phates equipment with rational factities for factory sites, etc., and sale of five-acre tracts for truck farms; total expenditure about \$200,000; no engineer yet in charge; A. C. Read, president; M. W. Fleming, viceoresident; W. D. Cammack, secretary; main office, Little Rock, care of Southern Trust 'o. (Recently noted incorporated with \$100,-Co. (Recently no 000 capital stock.)

Fla., Geneva.—East Sanford Land Co., W. A. Whitcomb, principal, Bloomington, Ill., Whitcomb, principal, Bloomington, Ill., rchased 19,000 acres in Orange county and will develop, probably for residential and farming purposes; purchase price about \$142,000; property is bounded on three sides by Lakes Harney and Jessup and St. Johns

Fla., Jacksonville.—D. C. MacInnis of New York and associates purchased 20,000 acres in Duval and Nassau counties for colonization: consideration, about \$200,000; prop incorporate company, probably under title Jacksonville-Florida Farms Co, with \$200, capital stock; main office to be in New York and branch office in Jacksonville.

Knights. - Co-operative Homeste 'o., A. B. Hawk, president, Tampa, Fla., will establish "Crystal Spring Colony" on site of 24,000 acres in Hillsboro and Pasco counties; road 90 feet wide will be built through prop-erty by both counties, and this will be main street; all other streets will be 66 feet wide; lake is to be cleared and improved.

Fla.. Redland - Fruit. - J. L. Billingsley, Miami, Fla., purchased 60 acres and will cul-tivate grape fruit, oranges, coconnuts, etc.

Fla., Tampa.—Thomas Land Co. incorporated with \$25,000 capital stock; Peter O. Knight, president; Walter C. Thomas, vice-president, general manager, secretary and

Fla., Tampa.-Belaton Florida Col-Fig., Tampa.—Betaton Florida Colonization & Development Co. incorporated with \$500.-000 capital stock by W. H. Jackson of Tampa, Antone Brany and Emerich W. Rettegl, Alha, N. J.: Marcus Brown of New York and others; will establish Hungarian colony to be known as Belaton, and proposes to culti-vate guttapercha, mushrooms, etc., manufac-Hungarian specialties, artificial stone, coap and other articles, and develop farm-

Fla., Tampa.-North Tampa Land Co., C. E. Thomas, president, Chicago, Ill., purcha 20,000 acres in Hillsboro county and is h ing property surveyed into 10, 20 and 40-a purchase price about \$125,000; with locate townsite.

La., New Iberia.-Andrew and I. D. ford of New Orleans and G. P. Lane, Dallas, Tex., have approved plans for development as residential section of about 400 acres of land on Bayou Teche; improvements will in-clude cement sidewalks, drainage, waterworks, concrete columns, etc

Md., McCoole.-Western Maryland Orchard Co., Silas Alden Condict, manager, will de velop fruit orchard of about 500,000 trees velop fruit has planted 40,000 trees, principally peach and apple, and is constructing roads to property

apple, and is constructing roads to property.

Miss., Bolivar County.—L. K. Salsbury, banc Reese, George H. Tucker, R. T. Fant and A. S. Buchanan of Memphis, Tenn., and Manchester (England) capitalists are reported as negotiating for 32,000 acres of land for \$2,000,000 with intention of developing by cotton cultivation; rumors state will expend \$1,000,000 during first year for improvements, fertillizing, steam, plows, etc., for fertilizing, steam plows, etc., scientific production of cotton; 32,000 acres vered with hardwood timber

Mo., Frohna.—Palisch Land Co. incorporated with \$21,000 capital stock by Charles J. Palisch, G. A. Palisch and Henry G. Palisch.

Mo., St. Louis.—Louis Cella will improve and develop old Delmar racetrack as resi-dential section, expending, it is reported. about \$200,000; engineers have prepared plan ess River des Peres and change its ourse, which is now diagonally across entire course, which is now diagonally across property; latter work is estimated to cost

Mo., Sedalia.-City voted iss 000 of bonds to improve Liberty Park, suburb

Address The Mayor.
N. C., Charlotte,—Eastside Realty Co. in G. McManaway, Luther Snyder, L. P. Mac-Kenzie, D. M. Abernathy and T. B. Long to develop suburb comprising about 100 acres; property is to be surveyed and platted. and sidewalks graded, etc.

N. C., Charlotte,-Gattis Realty Co. incor porated with \$125,000 capital stock by Thomas J. Gattis, Henry Hayman and Craig David

8. C., Georgetown. — Georgetown Farm Land & Homeseekers' Co. organized with Land & Homeseekers' Co. organized with \$150,000 capital stock and will delevop 15,000 acres; W. D. Morgan is president; L. F. Rhem, vice-president; E. V. Emerson, secretary-treasurer.

- Chattanooga Land 'o. incorporated with \$100,000 capital stock by W. B. Crabtree, W. D. Sutton, Samuel Strauss, W. P. Jenkins and others; will de-velop property east of Mission Ridge, divid-ing it into building sites, streets, etc.

Tenn., Memphis.—Plantation Land Co. in-corporated with \$25,000 capital stock by H. P. Fuhrer, W. R. Neblett, F. H. Thurman and others.

Tenn., Memphis.-Plantation Land Co. in corporated with \$25,000 capital stock by H. P. Fuhrer, W. R. Neblett, F. H. Thurman nd others

Tenn., Wayne County.-S. W. Dandridge of W. Dandridge & Co., Charlotte, N. C., pur-ased 10,000 acres in Wayne county for out \$40,000 and will develop as residential

Tex., Houston.—W. J. Dermody Investment Co., Omaha, Neb., purchased 4226 acres about nine miles west of city and 4000 acres northeast of city; both tracts to be subdivided into farms of about 10 acres each. ut 10 acres e

Tex., Marfa.—West Heights Development to incorporated with \$3000 capital stock by ohn Humphris, S. J. Hensley and R. B.

Tex., Houston.—Port Houston Land & Townsite Co. and J. A. Alderson have con-tracted for development of townsite for tracted for development of townsite for residence and factory purposes; under con-tract Mr. Alderson agrees to survey and divide property, comprising 850 acres on Buffalo Bayou, into city lots; company re-serves right to retain 25 acres adjoining city slips, same to be surveyed and divided only stips, same to be surveyed and divided by Mr. Alderson, and also 20 acres for fac-tory purposes. Port Houston Land & Town-site Co, agrees to expend \$25,550 of net pro-ceeds of sales of lots for permanent improve-ments as follows: For electric lighting, water-works and sewerage system, \$160,65°; for grading and shelling streets and for drainage, \$33,000; for bonds for electric car line, \$25,000.

Smithfield.-Crawley Land Co. inco porated with \$25,000 capital stock; J. E. Crawley, president; W. J. Crawley, secre-

W. Va., Charleston.-Kanawha-Texa ny incorporated with \$500,000 capital stock Grant P. Hall, L. C. Massey, S. P. Smith and others; will locate townsites on about

W. Va. Hedgesville. w. va., Hedgesvine. — Paranise Orenards o, incorporated with \$125,000 capital stock Edgar C. Guinn of Hedgesville; Richard Claughton (treasurer United States Trust 1405 G St. N. W., Washington, D. C.,

W. Va., Lamberton (postoffice at Ellen-boro, W. Va.).—American Undercurrent Co. of Pittsburg, Pa., and Pennsboro, W. Va., where H. L. Lambert, vice-president, is in charge, will build factory and town; has 700 acres for developing by paving streets, laying gas and water mains, constructing sewers, creeting dwellings, etc. (See "Mis-

W. Va., Williamson.—Burning Creek-Mar-rowbone Land Co. Incorporated with \$100,000 capital stock by John A. Sheppard and others. (See "Miscellaneous Factories.")

LUMBER MANUFACTURING

Ga., Rome.-Acme Lumber & Manufactur-ing Co., J. H. Taylor, president, will erect 80x160-foot mill-construction building. (Recently noted to rebuild burned plant.)

Ga., Boston,-Kirby Planing Mill Co. will sawmill.

Ga., Rome.—Acme Lumber & Manufactur-ing Co., J. H. Taylor, president, will erect 60x150-foot, 30x100-foot and 50x100-foot build-ings to replace burned plant; ordinary con-struction; cost of machinery \$10,000; will manufacture moldings, finish, flooring, ceil-ing, sash and doors. (Recently noted.)

Ga., Savannah.-Floyd Neck Land & Lui ber Co. incorporated by J. R. Paschall, W. C. Parker, Jr., and K. D. Steere.

Ky., Cleveland.-Clay's Ferry Sawmill Co. rated by Lee Smitha, T. B. Adams

Ky., Lexington.-American Timber & Coal Ky., Lexington.—American Inner & Coa. Co., Cincinnati, O., telegraphs Manufacturera Record that company is developing 500,000 a-res Kentucky and Tennessee coal and tim-ber land; making coal leases and selling stumpage; has organized with \$5,000,000 capital stock; president, E. R. Buck; vice-presi rge W. Platt; secretary, Wm.

Durham; treasurer, Thomas M. Stewart; general manager, George H. Black.

Ky., Richmond.-Alinite Coal & Lumbe chartered with \$500,000 capital John E. Lynch, John C. Chenault and Jo

La., Eros.-Tremont Lumber Co. build on enlarged scale lumber plant re-cently reported burned at loss of about \$200,000.

Providence.-American La., Co., White Bldg., Buffalo, N. Y., states re-cent report it will build sawmill is not cor-

La., New Orleans, - Washington Cypres Lumber Co. incorporated with \$100,000 capital stock; E. Martin, president; F. C. Martin, vice-president; E. Martin, Jr., secretarytreasurer.

La., New Orleans.-Baton Rouge Vene R. H. McLeod, owner, Baton Rouge, La., will rebuild veneer plant (recently reported burned) in Hanson City, a suburb of New

Miss., Hickory.-C. G. Weatherford will rebuild sawmill reported burned; cost \$3500; has purchased machinery; daily capacity, 20,000 feet of timber.

Miss., Tylertown.-Q. D. Sauls (recently noted to establish lumber manufacturing plant) will erect building of ordinary mill construction; cost \$3000 to \$5000; cost of mato be installed \$5000; daily capacity 40,000 feet of lumber. (See "Machin ery Wanted.")

Miss., Minter City.-J. H. Allen & Co with ganized with \$20,000 capital stock by Pearce, Pine Bluff, Ark., and others.

Mo., Downing.-Downing Lumber Co orporated with \$10,000 capital stock Streeter, W. A. Barbee, John McWilliams

N. C., Black Mountain.-S. Montg Smith, Asheville, N. C., telegraphs Manufac turers Record he has purchased 19,000 acre Yancey county timber land; sold spruce of Smith at \$10 per 1000 feet in log delivered at mill to Charles Edgar, Evanston, III.;
Mr. Edgar plans erection of band mill for daily capacity 75,000 feet lumber; Mr. Smith will sell 10,000 acres hardwood of tract to Asheville company now organizing; con-nected with these developments sash and door factory, hardwood flooring plant, stave and pulp and paper mill practically as-

N. C., Canton. - Champion Lumber chartered with \$5,000,000 capital stock; pur and will develop over 100,000 a wood county timber land; properties clude Pigeon River Lumber Co. and 60,000 acres, Champion Fiber Co.'s Sunburst tract acres, Champion Fiber Co.'s Sunburst tract of 40,000 acres, Tennessee & North Carolina Railroad and Pigeon River Railroad Co.; will rebuild Pigeon River Lumber Co.'s mil-at Crestmont, Tenn., and install additional machinery, increasing daily output to 175,000 feet of lumber; plans constructing in near future between Canton and Sunburst large riture between Canton and Sunourst large mill for manufacturing hardwood lumber from timber on Sunburst tract; will exten-rallways, etc. President is R. F. Whitmer of Wm. Whitmer & Sons, Philadelphia, Pa. manager, J. Arbogast of Asheville Others interested are J. B. Leach & New York, Clark L. Poole & Co. o Chicago, and Peter G. Thompson, president of Champion Fiber Co. of Canton.

Tenn., Crestmont.-Champion Lumb will rebuild Pigeon River Lumber Co.'s mill and add machinery to increase daily capacity to 175,000 feet lumber. (See N. C., Can

C., Roxboro.-Caltolina Land & Lun N. C., RONDOTO.—CHITOTHIA LIMID & LUMIDER Co. incorporated with \$50,000 capital stock by R. P. Early, D. W. Early, John R. Mc-Clurd and others, all of Shelby, N. C.; pur-chased 1036 acres of timber land in Person county, estimated to contain 5,000,000 feet of lumber, will erect four or five sawmills and establish new town of Caltolina; land will also be improved for farming.

Okla., Atoka.-National Lumber & Manu Co. (recently noted incorporated with \$10,000 capital stock) takes over asse of Atoka Lumber & Manufacturing Co makes bols d'arc products and ash staves ontemplates addition of handle Wm. Bassett, president; J. M. Humphreys secretary. (See "Machinery Wanted.")

Okla., Wilburton .- Moore Hardware & Lut ber Co. incorporated with \$20,000 capital stock by Claude O. Moore, Ross H. Moore and Earl M. Moore.

Tex., Houston.—Houston Lumber Co. incor-orated with \$5000 capital stock by Mrs. M. L. Upton, Mrs. C. O. Dubose and James Journeav.

Va., Lynchlurg.-Lloyd Moore will erect planing mill at Turnpike and Main St.; machinery to be operated by electric motor.

Va., Prince William County.-S. E. Foster, Fredericksburg, Va., contemplates establish ment of two sawmills on tract recently pur chased in Prince William county; pine and oak timber.

MINING

a., Auraria—Gold.—Eldorado Gold Mining Incorporated with \$500,000 capital stock Lappe and Louis Werk, Pittsburg. Pa., and C. R. Sovey, Kansas City, Mo.

Mo., Joplin.-Gager Mining & Milling Co corporated with \$6000 capital stock by F II. Gager, L. L. Gager and Nellie 6

Mo., St. Louis.-Philipsburg Mining Co. in orporated with \$30,000 capital stock by L. M. umsey, H. S. Rumsey, M. Katany, A. L. Shapleigh and others.

C., Winston-Salem-Granite. Co. incorporated with \$250,000 capi tal stock by J. L. Wimbish and others.

Tex., San Saba-Marble.-San Saba Mar ble Co. elected W. L. Swinney, Dallas. Tex., president; G. W. Brown, vice-president; J. H. Chambliss, secretary and manager; L. L. Steele, treasurer; Messrs. Brown, Chambliss and Steele are of West, Tex.; machinery includes channeling machines, saws, hoisting engines, etc. (Rece ported incorporated with \$50,000 includes derricks Recently stock.)

, Esmont-Slate.-Albemarle Slate Cor poration, Geo. Morris, president, Esmont, and 55 Liberty St., New York, will operate plant to have ultimate output of 500 squares er day; acreage about 457; will open bld; for mining machinery April 15; proposals to be addressed to Geo. Blow, manager, Es-mont; company was recently noted incorporated with \$2,500,000 capital stock. (See "Maery Wanted.")

MISCELLANEOUS CONSTRUCTION

Fla., St. Petersburg.—City will vote May 9 issuance of \$30,000 of bonds for purchas-Divine, City Clerk.

Fla., West Palm Beach-Dock and Ser City will vote May 2 on issuance of \$32,000 of bonds for construction of dock and seawall; J. B. McGinley, Mayor. (Date of elec-tion postponed from March 21, as lately

Ky., Hickman-Dock. - Mississippi Valley Transportation Co., New Bank of Commerce Pildg., St. Louis, Mo., will construct docl with steel or concrete shipping freighthouse plans not determined.

La., New Orleans—Levees,—Commissioners Tensas Basin Levee District, T. B. Gilbert, Tensas Basin Levee District, T. B. Gilbert, Jr., president, awarded contract to Lawrence Bros. & Co. at 20.82 cents per cubic yard for construction of Lucca levee in Desha county, Arkansas, along right bank of Mississippi River, and extending for 7300 feet; work will require about 350,000 cubic parks of the control of Design Level & Williams vards of material: to Doullout & Williams to construct Cusilich Canal levee in Plaque-nines parish, La., at 21.5 cents per cubic yard; will require about 8000 cubic yards material.

Tex., Galveston.-L. T. Gayle Tex., Galveston.—L. T. Galyford, Houston, Fex., representing Atlantic, Gulf & Pacific o. of New York, is lowest bidder at 6.7 ents per cubic yard, or \$281,400, for widening and deepening Galveston channel; bid was based on estimated yardage of 4,200,000 uble yards; proposed work is dredging of the party of the projected dimensions of the projected dimensions of cubic yards; proposed work is dredging of channel to obtain projected dimensions of 1200 feet wide and 30 feet deep; present width, 500 feet; channel is to be widened for distance of about 8200 feet; for width of about 250 feet work will be redredging where present depths vary from 18 to 25 feet; balance of work will be new dredging, where present depth is about 4 feet; redredging is about 700,000 cubic yards and new work about 3,500,000 cubic yards, making total of 4.200,000 cubic yards; redredging will be car. ried to depth of 34 feet to provide for future shoaling, but new work will be dredged to depth of 3 feet below mean low water; re-dredging will be done first for entire distance, and then channel will be widened as far as funds available, about \$275,000, will permit; material to be removed consists of mud and clay. G. P. Howevers, has forwarded bids to ell. Mai ton. (Recently mentioned.)

Laferia.-Laferia Mutual Canal Co. ed capital stock from \$8000 to \$253,320,

MISCELLANEOUS ENTERPRISES

Ala., Eusley-Printing Plant .- Ensley Sun vill enlarge and re-equip printing plant.

Ala., Mobile — Grain Elevator. — J. Zimmern's Company awarded contract to S. E. Dupree & Sons of Mobile to enlarge and re-

model building. 100x95 feet, at Monroe and Water Sts., which is to be equipped as grain elevator and warehouse; latter to have storage capacity of 75 carloads of grain.

Fla., Miami-Dredging. - George F. Co Lightering & Towing Co. incorporated with \$40,000 capital stock by L. G. Highleyman, St., Louis, Mo., and others.

Ala., Montgomery - Distributing Plant. The Texas Company, Houston, Tex., will es-tablish branch plant; erect three frame buildings, costing about \$4000, to be 30x120, buildings, costing about buildings, costing about 3x45 and 24x48 feet, respectively; will accept the cerect steel oil tanks; initial investment about 5x4500. J. C. McCullough is in charge of 5x4500.

Ga., Sayannah,-Floyd's Neck Land & Tim r Co. incorporated with \$25,000 capital stock J. R. Paschall. W. C. Parker, Jr., and K.

Ky., Louisville-Cleaning and Dyeing.-Cleaners & Dyers incorporated with \$5000 apital stock by Ernest Leffler, Fred Leffler and Albert Leffler.

La., Shreveport. - Journal Publishing Co. Incorporated with \$50,000 capital stock; A. J. Frantz, president; P. M. Welsh, vice-president; D. Attaway, secretary; L. O. Thomas,

Miss., Jackson-Immigration.—Central Impigration Co. organized with \$50,000 central migration Co. organized with \$50,000 capital stock; will deal in farm and timber lands; Longino, president; William Simon-eneral manager.

Md., Baltimore-Printery.-Crouch & Le incorporated with \$5000 capital stock by Ed-win Crouch (of Crouch-Lesser Company), 123 S. Charles St.; Maurice Lesser and Jacob

Mo., Joplin-Grain Elevator.-J. W. Bo Grain Co. awarded contract to Pelkey Con-struction Co. for erection of grain elevator rood covered with iron; cost, including machinery, \$8000. (Recently noted.)

Mo., Kansas City-Engineering.-Curtis Engineering Co. incorporated with \$2000 capi-tal stock by R. A. Curtis, C. H. Peterman and R. G. Bassingte

Mo., Kansas City-Engineering.-Foote En zineering & Construction Co with \$10,000 capital stock by H. B. Foote, Roy B. Pearse and C. G. Spencer.

Mo., St. Louis-Publishing.-Central Literary Publishing Co. incorporated with \$2000 capital stock by Edward R. Schieferdecker, Arthur E. Mueller and J. H. Zumbaler

N. C., Greensboro — Greenhouse. — J. V Lindley Nursery Co. will erect addition 300x 42 feet to greenhouse, making entire struc-ture 500x42 feet and covering 75,000 square feet of space; carload of glass quired; construction begun.

N. C., Laurel Hill-Machine Repairing, etc. Mercantile & Machine Co., J. T. Flythe, president (recently reported incorporated with \$19,000 capital stock), will deal in general merchandise and automobiles, and do machine repairing; will erect 30x50-foot brick and od structure : R. Morrison, manager. (See 'Machinery Wanted.")

N. C., Raleigh-Printery.-Biblical Recorder Co., Cary J. Hunter, president, will erect newspaper plant; building will be three sto-ries, 45x100 feet; brick with stone trim-nings; cost \$15,000.

Okla., Carnegie—Publishing.—Carnegie Pub-ishing Co. Incorporated with \$5000 capital tock by James H. Cunningham, Clyde C. Leech, Paul Nesbitt and J. Lee Wilson

Okla., Holdenville-Hardware and Furni ture.—Coleman Hardware & Furniture Co. in-corporated with \$10,000 capital stock by Clark Nichols, J. L. Kelley and others.

Tex., Beaumont-Heating and Plumbing.-Grimmel Plumbing & Heating Co. incorpo rated with \$3000 capital stock by K. D. Bishop, Victor H. Hexter and Arthur L. Kramer.

Tex., Corsicana-Printing.-Corsicana Print ing Co. Incorporated with \$5000 capital stock by James Garitty, D. N. Rice and W. V. ekett.

Tex., Galveston-Marine Ways and Dry-docks.-Gulf Fisheries Co., J. W. Munn, president, Pier 22, leased property on Peli-can Spit and will construct 300-ton marine railway with transfer cradle; also shipyard; total expenditure about \$20,000; contract awarded to H. J. Crandall & Son Company, East Boston, Mass.

Tex., Greenville-Amusement Park-Day ton Construction Co. will establish amuse-ment park; has 10 acres of ground about two miles north of Greenville; will erect theater, bowling alleys, dance ball, skating rink, rest room, band stand, merry-go etc.; cost \$15,000; A. B. Coryell is m

Co. incorporated with \$100,000 capital stock by Gus Dreyling, J. W. Lockett and others.

Okla., Oklahoma City-Live Stock.-Union Live Stock Co, incorporated with \$30,000 cap-ital stock by S. A. Newland of Ardmore, Okla.; Charles B. Daniels and Carl D. Pryer of Texlina, Tex

Okla., Oklahoma City-Dye Works,-New York Star Dye Works incorporated with \$5000 capital stock by Albert J. Bozalla, Alice Lyat Bozalla and Fannie Dubois.

Tenn., Memphis - Park. - City petitioned islature for authority to issue \$300,000 to bonds; Heiskell Weatherford, City En-

rancahua-Ranch.-Ward Cattle Pasture Co. incorporated with \$1,200,000 capital stock by Russell E. Ward, B. Q. Ward and Reiffert Ward; has 250,000-acre ranch with 51,437 head of cattle, mules and horses.

Tex., Fort Worth - Printing. - Reimer-Ex. Tex., Fort Worth - Frinting. - Reinier Ex-line Printing Co. is name of company re-cently reported organized with \$300,000 capi-tal stock to consolidate Reiners Company of Fort Worth and M. P. Exline Company, Dallas, Tex.; purchased site for \$50,000 and will erect plant 200x200 feet.

Tex., Houston-Pleasure Resort. -M. Jenks and Clark Cox will expend \$30,000 in improvements to pleasure resort; will construct 1000 feet of scenic railway, 150x150-foot theatorium and 50x100-foot pavilion; plans and construction by Mr. Cox. (Reently noted to establish pleasure resort olia Park.)

Tex., San Antonio-Publishing.-Light Pub lishing Co. incorporated with \$100,000 cap stock by G. D. Robbins, H. L. Steele stock by G. D. I Marcus W. Davis.

Tex., Sutherland Springs-Mineral Water Tex., Sutherland springs—America Wats., Hygen Mineral Water Co. incorporated with \$30,000 capital stock by W. E. and H. R. Nel-son, San Antonio, Tex., and Judson Hume, Sutherland Springs

Tex., Waco-Printing.-E. W. Marshall and B. L. Scott will expend \$10,000 to erect print ery; \$9x100 feet; ordinary construction. (Re-cently noted under "Miscelaneous Fac-tories.")

Va., Harrisonburg-Printery.-Harris Printing Corporation incorporated with \$20,000 capital stock; M. M. Jarman, president, Elton, W. Va.; W. W. Logan, vice-president, Woodstock, Va.; Samuel Paul, secretary,

Va., Norton-Steam Laundry.-F. B. Kline orted to establish steam laundry

Va., Petersburg-Publishing.-Index-Appea Publishing Co., Walter Edward Harris, president (recently reported incorporated with \$75,000 capital stock), will publish Index-Appeal and Evening Record; will install 20horse-power steam engine and generator.

Va., Troutdale-Publishing.-Troutdale Pub lishing Co. incorporated with \$2500 capital stock; M. A. Hoffman, president, Grant, Va.; G. E. Parks, secretary, and J. F. Greear, treasurer, both of Troutdale.

W. Va., Benwood-Crematory.-City Council awarded contract to Dixon Engineering Co., Toledo, O., at \$8000 for crematory plant: incinerator to have capacity of 12 tons of garbage daily.

W. Va., Clarksburg-Garage. - Monticelle utomobile & Garage Co. incorporated with \$100,000 capital stock by D. W. Jacobs, C. E. Prunty, Arthur Parsons and others.

W. Va., Hinton-Contracting.-W. Mass onstruction Co. incorporated with \$10.0 Construction Co. incorporated with \$10,000 capital stock by W. Mason, J. P. Wilkinson, Joseph Hinton and others.

MISCELLANEOUS FACTORIES

Ala., Bessemer-Implements.-International Harvester Co., Chicago, Ill., telegraphs that recent report it will erect plant is not cor-

Ala., Birmingham - Macaroni. - Alabama Macaroni Co increased capital stock from \$30,000 to \$50,000.

Ala., Calcis-Lime.-Calcis Lime & Stor C. Shackelford, president, 1030 National Bank Bidg., Birmingham, Ala., will operate lime works; present contemplated improvements include repairing limeklins, dwelling-houses, etc.; dally capacity, 300 barrels of lime; W. C. Shackelford and Frank ollenwerck recently noted to have nsed Calcis Lime Works. (See "Machi Wanted.")

Ala., Mobile-Mattresses.-Perfection Mat tress Co., Birmingham, Ala., will establish branch plant.

Ark., Berryville-Broom s.-E. Leach Can ning Co. will install machinery and operate broom factory; E. Leach recently noted in-terested. (See "Machinery Wanted.")

Fla., Jacksonville-Bed Appliances.-Extra Tex., Houston-Laundry.-Model Laundry Cover Holder Bed Co. incorporated with \$100.

k

000 capital stock; A. K. Williams, president; Arthur T. Williams, vice-president; B. J. Butts, secretary; C. C. Bettes, treasurer.

Ga., Atlanta.—Automobile Trucks.—De Loach Manufacturing Co., 1112 Candler Bidg., has organized with A. A. De Loach president, J. K. De Loach vice-president and secretary, V. J. Adams treasurer; will add tractor truck manufacturing to established line of De Loach mill machinery; capitalization, \$250,000. (Recently noted.)

Ga., Buford—Tannery.—Bona Allen, Inc., Bona Allen, president, advises Manufacturers Record that building recently noted is but part of plan to rebuild tannery complete; the building now being erected is 75x250 feet, four stories, mill construction, and will replace present structure; present machinery will probably be used. (See "Machinery Wanted.")

Ga., Columbus—Candy, etc.—Sugar Valley Plantation Co. incorporated with \$15,000 capital stock, and privilege of increasing to \$100,000, by P. J. Williams, J. J. Williams and others; proposes to grow sugar-cane, refine syrups, manufacture candy, etc.

Ga., Douglasville—Lace Cabinets.—Krom Lace Cabinet Co., J. T. Duncan, president, will increase capital stock from \$6000 to \$10,-900; erect additional building and double capacity of plant.

Ga., Jasper-Monuments, etc.—Jasper Monumental Works, J. W. Howell, president (recently noted organized to manufacture marble and granite monuments, etc.), will erect building of ordinary construction and install machinery; plans not determined.

Ga., Savannah—Wood Distillery.—Chatham Manufacturing Co, incorporated with \$10,000 capital stock by B. L. Fitch, M. E. Fitch and J. F. Bailey.

Ky., Covington—Screens.—Easy Adjusted Screen Co. incorporated with \$15,990 capital stock by Harry F. Hittlinger, John J. Ennis and H. J. Lezchy.

Ky., Louisville – Tobacco. – C. E. Ziegler Tobacco Co., Eddy St. (between 16th and 17th Sts.) incorporated with \$150,000 capital stock by W. D. Collins and others; will continue established plant and is considering plans for erection of factory (on present site) costing about \$25,000.

Ky., Mariou-Valves.—Shrode Valve Co. in corporated with \$100,000 capital stock by John L. Shrode, F. W. Nunn, T. H. Cochran, C. S. Nunn and J. W. Blue, Jr.

Ky., Owensboro—Candy.—Vick-Miller Candy Co, Increased capital stock from \$20,000 to \$40,000.

Ky., Paducah-Gloves, Shinn Glove Co. increased capital stock from \$35,000 to \$50,000.

Ky., Pineville—Bakery.—Pineville Bakery Co. Incorporated by W. T. Davis, George C. Davis, Boyd Davis and C. C. Davis.

Ky., Salvisa-Brooms.—Mercer Canning & Manufacturing Co., W. K. Tevis, president, will manufacture brooms. (See "Canning and Packing Plants.")

and Packing Plants.")

Ky., Sturgis—Barges.—West Kentucky Coal
Co., W. H. Cunningham, manager, Paducah,
Ky., will rebuild barge plant recently reported burned; mill construction; cost \$3000;
construction by company; cost of machinery
\$4000. (See "Machinery Wanted.")

La., Delcambre—Sugar.—Delcambre Sugar Co. will not make any additions to mili as recently reported.

La., New Orleans—Brooms.—William Stietenroth, proprietor of Southern Home Broom Co., Natchez, Miss., contemplates establishing \$100,000 broom factory at New Orleans or Shreveport, La.

La., New Orleans.—Campbell Paint Co. incorporated with \$19,000 capital stock; Edwin A. McKoy, president; Arthur B. Hunt, vicepresident; John A. Taylor, secretary-treasurer.

La., New Orleans—Biplanes.—C. R. Miller of New Orleans, C. F. Charlifs, Houston, Tex., and associates will establish biplane factory and school.

La., Shreveport-Glass. - August Bolonger Penna will, it is reported, erect glass factory.

Md., Baltimore—Overalls.—Baltimore Overall Manufacturing Co., 40 S. Howard St., incorporated with \$25,000 capital stock; D. Pelzerman, president; M. Wilenzig, treasurer; daily capacity, 200 dozens.

Md., Creagerstown, R. F. D. from Rocky Bridge—Glue, Ink, etc.—P. A. Hann & Co. wil rebuild burned factory for glue, ink, etc.

Mo., Hannibal-Brewery.—Hannibal Brewing Co. increased capital stock from \$25,000 to \$100,000.

Mo.. Kansas City-Monuments.-Kansas City Granite & Monument Co., 1904 Grand Ave., has organized with A. W. Smith, president; T. S. Reed, secretary-treasurer; has building and machinery. (Recently reported incorporated with \$25,000 capital stock.)

Mo., Kansas City — Drinking Device. —
Thornton Sanitary Drinking Device Co. has
organized with Dr. C. W. Thornton, president; W. A. Snell, vice-president; W. R.
Montgomery, secretary; J. L. Williams,
treasurer; will have drinking device manufactured by contract, which has not been let,
(Recently reported incorporated with \$50,000
capital stock.)

Mo., Kansas City — Wheels. — Standard Spring Wheel Co. incorporated with \$100,000 capital stock by Chas. F. Underhill, Theo J. Blackendorf and Harry W. McNutt.

Mo., Kansas City—Mailing Machines.—Automatic Mailing Machine Co. has organized with W. C. Renfro, president; F. R. 8. Direction, secretary-treasurer; will manufacture machines by contract. (Recently reported incorporated with \$100,000 capital stock.)

Mo., Kansas City-Scales.—Kansas City Scales Co. incorporated with \$10,000 capital stock by F. M. Cockrell, R. I. Merrill, E. J. Spencer and others.

Mo., St. Joseph.—Emerick Specialty Manufacturing Co. incorporated with \$3000 capital stock by C. F. Emerick, C. A. Battreall and Joseph L. Davison.

Mo., 8t. Louis—Medicines.—E. C. Grallagher Medicine Co. Incorporated with \$100,000 capital stock by A. Sumner Haight, M. E. Buske, J. M. Griffith and others.

Mo., St. Louis—Medicines.—American Medicine Co. incorporated with \$20,000 capital stock by Joseph Jaque, Beverly B. Deems and Charles J. Anderson.

Mo., St. Louis—Heating Apparatus.—D. & T. Manufacturing Co. incorporated with \$30. 600 capital stock by John M. Dougherty, Harry C. Tabler, George E. Miller, James W. Gal and others.

Gal and others.

Mo., St. Louis—Clothing.—American Guaranty Garment Co. incorporated with \$10,000 capital stock by Albert Maescher, George W. Westerkamp, A. C. Bush and others.

N. C., Henderson-Phosphoric Acid.-Vance Guano Co. will construct acidulating plant for manufacture of phosphoric acid; cost of building, \$20,000.

N. C., Winston-Salem—Tobacco.—J. G. Flynt Tobacco Co. incorporated with \$100,000 capital stock; has elected J. G. Flynt, president R. W. Gorrell, vice-president; J. P. Fulton, secretary-treasurer; will manufacture tobacco; dally capacity 1000 pounds.

Okla., Oklahoma City—Electric Controller. Electric Controller Co. incorporated with \$100,000 capital stock by C. O. Allen and W. M. Bowles of Shawnee, Okla.; Milton Bryan, J. M. Postelle and Abner Davis of Oklahoma City

Okla., Pawhuska—Gasoline Refinery.—Auto-Gasoline Refining Co. incorporated with \$10,000 capital stock by Sam P. Nicholson, H. C. Lette and A. J. Vaughn, Muskogee, Okla.

Okla., Tulsa-Glass.-Blum Art Glass Co., Loulsville, Ky., will establish plant for manufacturing beaded-glass windows and art and ornamental glass for decorative purposes.

S. C., Columbia—Gas.—Columbia Gas Light Co. increased capital stock from \$100,000 to

S. C., Greenwood—Typewriters.—G. H. Bruder and J. A. Bell, Harrisburg, Pa., are considering establishment of typewriter factors; propose organizing company with \$300,000 capital stock.

Tenn.. Memphis—Candy.—Novelty Candy Co. will install additional machinery, which will increase annual capacity from 3,000,000 to 7,500,000 pounds.

Tenn., Memphis — Washing Compound.— Rublesco Manufacturing Co., 106 N. Front St., is name of company to establish plant to manufacture washing compound; has building and equipment; R. M. Austin (recently noted interested) is manager.

Tenn. Nashville—Saddlery, etc.—Gray & Dudley Hardware Co., R. M. Dudley, president, increased capital stock to \$1,000,000; will develop and increase manufacturing departments, including saddlery and harness factory; recently noted under "Miscellaneous Enterprises." (See "Foundry and Machine Plants.")

Tex., Fort Worth-Glass Works.-Fort Worth Glass Works, J. R. Walkup, 203 E. Day St., proprietor, contemplates erection of two-story brick building, 50x70 feet.

Tex., San Antonio.—San Antonio Vito Zone Co. incorporated with \$10,000 capital stock by Z. C. Angevine, W. W. Pughen and J. V. Rogers.

Tex., Temple.—P. L. Downs and associates contemplate construction of gas plant to cost

Va., Alexandria—Bakery.—Lawman Bakery incorporated with \$25,000 capital stock; Willlam Lawman, president, 6th and A 8ts. N. E.: Harry Bosley, vice-president; C. R. Luce, treasurer; C. C. Weeks, secretary, all of Washington, D. C.

Va., Richmond—Lubricators.—Success Novelty Co., 618 Cary St., will operate plant with daily capacity of 59 force-feed lubricators; will occupy three-story erected building and install metal-manufacturing machinery; T. M. House, president and manager; George Green, vice-president; James Egan Kennedy, secretary-treasurer; was recently noted incorporated with \$10,000 capital stock. (See "Machinery Wanted.")

W. Va., Glen Ferris—Alloy.—Electro-Metallurgical Co. will rebuild plant reported burned at loss of about \$125,000; brick building will be erected; company manufactures alloy used for hardening steel.

W. Va., Lamberton, P. O. at Ellenboro, W. Va.—Subservice Electric System.—American Undercurrent Co. of Pittsburg, Pa., and Pennsboro, W. Va., where H. L. Lambert, vice-president, is in charge, will build factory and town; has 700 acres for development by paving streets, laying gas and water mains, constructing sewers, erecting dwellings, etc.; will erect plant on 15 acres, costing several hundred thousand dollars, to manufacture subservice system of electric traction; details not determined.

W. Va., Williamson—Carbon Black.—Burning Creck-Marrowbone Land Co. incorporated with \$100,000 capital stock by John A. Sheppard, Wells Goodykoontz, Harry Scherr and others to manufacture carbon black and drill for oil and gas.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, ETC.

La., Shreveport.—Kansas City Southern Railway, J. A. L. Waddell, construction engineer, Kansas City, Mo., will, it is reported, erect general repair shop.

Va., Newport News.—Chesapeake & Ohio Railway, F. I. Cabell, chief engineer maintenance of way, Richmond, Va., will rebuild machine, blacksmith and woodworking shops reported burned at loss of about \$20,000.

ROAD AND STREET WORK

Fla., Brooksville.—Town will vote April 25 on \$2000 bond issue for constructing sidewalks and \$7000 for paving streets; W. A. Thaxton, Town Clerk. (Recently noted.)

Fla., Jasper. — Hamilton County Commissioners, recently noted to receive bids April 3 for grading 39 miles road, will consider making this road hard; material not decided; probably clay; J. B. Wetherington, Clerk Circuit Court. (See "Machinery Wanted.")

Fla., St. Petersburg.—City will vote May 2 on Issuance of \$5000 of bonds for construction of cross-walks; W. F. Devine, City Clark

Fla., West Palm Beach.—City will vote May 2 on issuance of \$12,000 of bonds for street improvements; J. B. McGinley, Mayor, (Date of election postponed from March 21, as lately stated.)

Ga., Nashville.—Berrien County Commis sioners awarded contract to H. E. Warwick, Adel, Ga., to construct graded road, 30 feet wide, from Adel south to Lowndes county

Ga., Rome. — W. M. Gammon, chairman Board of Commissioners Roads and Revenues Floyd county, states that proposed road from Rome to Chaitanooga will be graded macadamized road with concrete steel bridges and concrete culverts; will connect with Government road running through Chickamauga Park to Lafayette; construction by convict labor; Floyd county also contemplates completing road to Polk county and another to Bartow this summer.

Ky., Bowling Green.—Southside Realty Co. awarded contract to Preston & Ennis for laying 14,990 square feet of concrete sidewalks on both sides of Magnolia Ave.

Ky., Louisville.—Board of Public Works awarded following contracts for construction of vitrified-block streets and alleys: G. W. Gosnell, Wilson, from 15th to 18th, and 28th, from Walnut to Cedar: Jefferson County Construction Co., three alleys between Rosewood and Beechwood and Baxter Ave. and Bardstown Rd.; alley south of Woodbine, between Brook and Floyd; alley between 7th and 8th and Breekenridge and Florence; alley between 21st and 22d and Bank and Lytle.

Ky., Pineville. — City will construct 15 blocks 8-foot concrete sidewalk on Pine St. and Kentucky Ave., also 5 blocks in West Pineville; is now paving three miles streets with asphalt binder, and contemplates letting contract for building road to be called "Cumberland Boulevard"; estimated expenditure for improvements, \$25,000; N. R. Patterson, Mayor.

La., Winnfield.—Winn parish contemplates road improvements; \$50,000 will be available. Address Police Jury.

Md., Denton.—Talbot and Caroline County Commissioners awarded contract to York Bridge Co., York, Pa., at \$28,968,22, for grading and macadamizing .83 mile of Dover Bridge Rd., and for construction of 70-foot steel drawbridge over Choptank River; Jos. B. Harrington, clerk to Talbot County Commissioners, Easton, Md.; William H. Anderson, clerk to Caroline County Commissioners, Denton, Md.

Md., Easton. — City will issue \$35,000 of bonds for street improvements; to include 50,000 square yards of street paving and 2000 to 2000 linear feet of curbing; material not determined; engineer not selected; amount available \$65,000; William E. Shannahan, president Street Improvement Commission.

Miss., Grennda.—City will construct 75,000 to 150,000 feet granolithic sidewalk; specifications on file at office of L. B. James, City Recorder; bids asked. (See "Machinery Wanted.")

Wanted.")

N. C., Linville.—Company has been incorporated to construct graded macadam road from Linville to Alta Pass, distance of 22 miles, and then continue from Alta Pass to Gillespie's Gap, connecting with graded road to Switzerland; also contemplated to extend road to Asheville; Joseph Hyde Pratt, Chapel Hill, N. C., is principal promoter.

N. C., Murphy.—Murphy Township Highway Commission contemplates construction of about 30 miles macadam road, and will award contracts as rapidly as possible; now offering \$50,000 of bonds; total amount of issuance to be \$150,000 to \$200,000; W. H. Woodbury, chairman. (Recently noted.)

N. C., Salisbury.—Boone Township petitioned Rowan County Commissioners to order election to vote on bond issue for macadamizing roads.

Legislature authorized

N. C., Sanford.—Legislature authorized Commissioners of Lee county to order election to vote on issuance of \$100,000 of bonds for road improvements.

Okla., Oklahoma City.—City will grade Avenue C, Avenue D, Avenue E, Avenue F, Elder and Catalpa Aves., etc.; bids received until April 10; Bob Parman, City Clerk. (See "Machinery Wanted.")

Okla., Oklahoma City.—City will construct various sidewalks; bids received until April II; Bob Parman, City Clerk. (See "Machinery Wanted.")

Okla., Ponca.—City will construct three blocks of brick paving and eight blocks of macadam; bids received until April 5; A. W. Farris, City Clerk. (See "Machinery Wanted.")

Tenn., Cocke County.—Mann Construction Co., Empire Bidg., Knoxville, Tenn., has contract for surfacing, grading and macadamizing 25 miles of county roads.

Tenn., Dresden.—Weakley County Commissioners awarded contracts for construction of roads in 22 county districts; E. W. Muzzall, John Brooks and Grooms & Co. are principal contractors.

Tenn., Knox County.—Mann Construction Co., Empire Bidg., Knoxville, Tenn., has contract for rebuilding 10 miles of county pike.

Tenn., McMinn County.—Mann Construction Co., Empire Bidg., Knoxville, Tenn.. has contract for completing grade work on 25 miles of county roads; 24 feet wide, with 80 per cent. of concrete drainage.

Tenn., Memphis.—F. D. Harvey, 11–8, 2d 8t., Memphis, states paying contract recently noted awarded to him amounts to \$30,000 for tar macedam limestone top on five-inch concrete foundation, and \$18,000 for limestone top, limestone foundation, curb and gutter on each street; J. H. Weatherford, City Engineer. Mr. Harvey is one of several contractors recently noted as receiving contracts. (See "Machinery Wanted.")

Tex., Austin.—City will pave 4th, 5th, 6th, 7th and other streets; total distance, 45,700 square yards; estimated cost, \$100,000; bids received until April 15; G. S. Iredell, City Engineer; P. W. Powell, superintendent of streets and public improvements. (See "Machinery Wanted.")

Tex., Dallas.—City Commissioners awarded contract to Texas Bitulithic Co. of Dallas at \$2.39 per square yard for paving South Bitulithic from Ervay to Holmes St. with bitulithic on concrete foundation; cost \$3567.50, of which city's part is \$1336.90; also to Texas Bitulithic Co. at \$2.30 per square yard for paving First Ave. from Parry to Santa Fe with bitulithic on concrete foundation; cost

\$4570.97, of which city's part will be \$2606.41; to Creosoted Wood Block Paving Co. at \$2.50 per square yard for paving Bryan St. from Pacific to Joseph with wood blocks; total cost will be \$74.017.30. J. B. Winslett, City Secretary, was instructed to advertise for bids for grading and filling on Bishop Ave between Zang's Blvd. and 12th St.; City Engineer estimates for roadway 890 cubic yards of cut and 2054 yards of fill, and for sidewalks, 6129 cubic yards of cut and 3761 vards of fill.

Tex., Farmersville.—City's plans for street improvements include concrete gutters, street crossings and culverts; amount available, \$10,000; J. P. Huddleston, Mayor. (Recently noted to vote \$10,000 for street improvements.)

Tex., Fort Worth.—McFarland-Neff Conerete Construction Co. has been awarded contract by Dr. Creagen and Mr. Frank for one mile concrete sidewalk; also one mile for City Park Board.

Tex., Granger.—Justice Precinct No. 2 of Williamson county voted issuance of \$100,600 of bonds for road construction. Address Precinct Commissioners.

Tex., Greenville.—City will construct 148,600 square yards paying and 84,000 linear feet concrete curb; bids received until April 11: W. A. Fraser, City Clerk; E. L. Dalton, consulting engineer, Dallas, Tex. (See "Machinery Wanted.")

Tex., Houston.—Bering Tire & Rubber Co., 511 Travis St., will construct two-mile speedway; dirt track, elliptical, with turns well-banked; location probably between Houston and Harrisburg (suburb); to be completed soon.

Tex., Liberty. — Liberty County Commissioners have been petitioned to order election for May 16 for voting on issuance of \$250,000 of bonds for road improvements; work will embrace about 90 miles of roadway.

Tex., Lockhart.—Road Precinct No. 1 of Caldwell county voted Issuance of \$50,000 of bonds for road construction. Address County Commissioners. (Recently mentioned.)

Tex., Longview.—City will vote bond issue April 11 for paving streets in business section. Address The Mayor.

Tex., Memphis.—Precinct No. 1 of Hall county voted issuance of \$25,000 of bonds for road construction. Address County Commissioners. (Recently mentioned.)

Tex., Sweetwater.—City awarded contract to A. J. Roy, Sweetwater, for 14 blocks of macadam and asphalt paving; work will begin within 30 days. (Recently noted.)

Tex., Texas City.—Galveston county awarded contract to Suderman & Dolson, Galveston, Tex., at \$17,410 for grading, regrading, paving with mud shell, building of culverts, ctc., on road from La Marque to Texas City, distance of 4½ miles; John M. Murch, County Auditor. (Recently noted.)

Va., Chase City.—City awarded contract to macadamize Main and Fifth Sts. to depot. Address The Mayor.

Va., Fairfax.—Fairfax County Good Roads Association contemplates rebuilding 20 miles of Leesburg turnpike, forming direct route from Washington to Leesburg; estimated cost, \$100,000.

Va., Farmville.—City let contract to Atlantic Bitulithic Co., Mutual Bidg., Richmond, Va., for paving recently noted awarded; price \$14,309.

Va., Norfolk.—City will construct cement concrete roadways on Martin's La. and Hall St., east of Yarmouth; about 1100 square yards; W. T. Brooke, City Engineer. (See "Machinery Wanted.")

Va., Norfolk.—W. T. Brooke, City Engineer, submitted to Public Improvement Committee estimate of cost of improving Manteo St. from Fairfax to Pembroke Ave. Fairfax Ave. from Mantec to Dundaff St., and Pembroke Ave. from public school to within 100 feet of Dundaff St., as follows: 1206 feet of curbing, \$744; 4400 square yards asphalt, \$8800, and sewer connections, \$150; total \$9694.

Va., Norfolk.—American Boulevard Corporation awarded contracts to J. N. Adenbrooke Sons, Norfolk, for granolithic sidewalks and to E. F. Mitchell for grading in Lockayen; Arthur C. Freeman, engineer in charge.

Va., Portsmouth.—Street committee and Sixth Ward Local Improvement Board will arrange for contemplated improvement of High St.; work will probably be under supervision of Bascom Sykes, engineer.

Va., Pulaski.—Pulaski Road District has \$70,000 available for permanent road improvement; work to begin within 60 days and to be done by "local road authorities"; J. N. Borong, clerk.

W. Va., Barboursville,—Town Council is considering paving of streets. Address Town Clark W. Va., Williamson.—City will grade, pave and curb First, Third, Fourth and Fifth Aves., Pritchard, Dickinson, Harvey, Logan and Vinson Sts.; paving will amount to about 16.000 yards and curbing to about 11,000 linear feet; bids received until April 10; N. H. Manakee, City Engineer, First National Bank Bldg. (See "Machinery Wanted.")

SEWER CONSTRUCTION

Ala., Mobile, — Board of Public Works accepted plans submitted by Wright Smith, City Engineer, for improvement of sewerage and drainage systems at cost of about \$600,000.

Ark., Hazen.—City will construct sewer system; contract awarded. Address The Mayor.

Fla., Jacksonville.—City awarded contract to F. W. Long & Co., Jacksonville, for construction of Hollowman St. and Highway Ave. storm sewers; reinforced concrete plpe furnished by Reinforced Concrete Culvert Pipe Co. of Jacksonville; R. N. Ellis. city superintendent.

Fia., Pensacola.—City will construct 15,060 linear feet storm-water drains from 66 to 10 inches in diameter and 23,880 linear feet of sanitary sewers from 24 to 6 inches in diameter; bids received until May 2; John A. Merritt, chairman bond trustees; George Rommel, Jr., engineer. (See "Machinery Wanted.")

Fla., 8t. Petersburg.—City will construct sewer system No. 17; bids received until April 13; W. F. Divine, City Clerk. (See "Machinery Wanted.")

Fig., West Palm Beach.—City will vote May 2 on issuance of \$16,000 of bonds for extension of sewer system; J. B. McGinley, Mayor. (Date postponed from March 21, as lately stated.)

Ga., Summerville (Richmond County), P. O. Augusta.—City voted issue of \$30,000 of bonds for extending sewerage and water systems; Alfred Cuthbert, intendant. (Recently mentioned.)

Ga., Thomaston.—City will vote May 1 on Issuance of \$45,000 of bonds for construction of sewerage system and water-works. Address The Mayor.

Ky., Lexington.—City awarded contract to Central Construction Co., Lexington, for construction of 4x½-foot storm-water sewer; to be horseshoe in shape and 320 feet long; work to be completed by May 1.

Ky., Lexington.—City will construct eightinch sanitary sewer beginning at manhole of High St. sewer and extending south along Rose, to near Grosvenor Ave.; bids opened April 5; John Skain, Mayor, Hernando Bldg, La., New Orleans — Sewerage and Water Board contemplates total expenditure of \$8,500,000 from 1912 to 1916, inclusive, including \$5,500,000 for construction of drainage.

La., New Orleans — Sewerage and Water Board contemplates total expenditure of \$8,500,000 from 1912 to 1916, inclusive, including \$5,500,000 for construction of drainage, \$950,000 for extension of water system and \$1,850,000 for connections to water mains and sewers to property line and water meters; \$7,000,000 of improvement bonds have been issued: W. J. Hardee, City Engineer.

La., Opelousas.—City has elected E. B. Dubnisson, A. J. Bercier and others as Board of Sewerage Commissioners; will arrange for construction of sewer system. (Previously mentioned.)

Miss., Cleveland. — Albert M. Alexander, civil engineer, and W. A. Claiborne, contracting plumber, will submit plans for construction of sewer system; estimated cost, \$12,000.

Mo., Kansas City.—Board of Public Works awarded contract at \$5100 to Johnson Real Estate & Contracting Co., represented by A. D. Johnson, to construct sewer extending along north side of Brush Creek from Lydia to Prospect Ave.

Okla., Altus. — City awarded contract to Terry Construction Co., Poteau, Okla., for completing dirching, about four miles, for sewer and water systems.

Okla., Chickasha.—City will receive bids until April 10 for construction of lateral sewer No. 52 in Sewer District No. 25; also until April 10 for construction of lateral sewers in Sewer District No. 26; Joseph Dews, City Clerk. (See "Machinery, etc., Wanted.")

Okla., Tulsa.—T. C. Hughes, City Engineer, will have plans ready in about 35 days for trunk line sanitary-sewer system on east side of city; cost \$35,000.

S. C., Columbia.—City will construct circular concrete storm-water drain and appurtenances on Gervals St., between Assembly and Pulaski Sts.; total length, 2600 linear feet; sizes, 36, 42 and 48 inches inside diameter; bids received until April 11; John McNeal, City Engineer. (See "Machinery

Tex., Longview.-City will vote bond issue

April 11 for purchasing sewer system. Address The Mayor.

W. Va., Barboursville,—Town Council is considering construction of sewer system. Address Town Clerk.

TELEPHONE SYSTEMS

Ala., Hazel Green, R. F. D. from New Market.—Hazel Green Telephone Co. organized with W. S. McCowan president and H. A. Bobo secretary-treasurer; equipment purchased.

Ky., Brown's Grove,—The Mayflower Telephone Co. incorporated with \$2000 capital stock by J. W. Byrd, W. I. Irvan, I T. Crawford and F. M. Pea.

Ky., Carrollton.—Carrollton Telephone Exchange Co, increased capital stock from \$5000 to \$25,000.

Va., Cambria.—Virginia & Tennessee Telephone Co., N. C. Watts, president, has applied for franchise to "construct telephone system; will connect with Christiansburg, Va.; has exchange; work by company's force; main office, Roanoke, Va.

force; main office, Roanoke, Va.

Ky., Claypool.—Claypool Telephone Co. has
arranged for and made purchases; will operate 29-mile line. (Recently noted incorporated with \$1800 capital stock by J. M. Willoughby and others; direction of line also
previously noted.)

Ky., Wiswell, R. F. D. from Murray.—Harris Grove & Murray Independent Telephone Co. incorporated by M. B. Guthrie, J. F. Key, J. B. Boyd, J. O. Key and O. C. Barnes.

S. C., Townville.—Townville Telephone Co. organized; E. C. Asbell, president and treasurer; John N. Bleckley, vice-president; is constructing telephone system from Townville to Anderson, S. C.

Okla., Chelsea.—Riggs Chapel Rural Telephone Co. incorporated with \$2500 capital stock by William Sutherlin, W. J. Strang, I. L. Russell and others.

Okla., Kingfisher.—Wandell Telephone Co. incorporated by J. L. Faxon, J. A. Caylor, C. C. Wells and others.

S. C., Gray Court.—Gray Court Telephone Co. incorporated with \$1500 capital stock by J. N. Leak, F. D. Bolt, G. F. Dorron and R. L. Gray: plant purchased; F. D. Bott, secretary and treasurer.

Tex., Tyler.—Guif States Telephone Co., Dover, Del., proposes to construct and operate telephone system through East Texas and extending into McLennen county; Texas main offices at Tyler.

Va., Danville. — Pittsylvania-Caswell Telephone Co. incorporated with \$3000 capital stock; J. F. Travis, president; J. M. Hodges, vice-president; J. W. Fuqua, secretary.

Va., Danville. — Pittsylvania-Caswell Telephone Co. incorporated with \$3000 capital stock; J. F. Travis, president; J. H. Hodges, vice-president; J. W. Fuqua, secretary.

W. Va., Amos.—Amos Telephone Co, incorporated with \$5000 capital stock by S. R. Miller, W. S. Swiger, Clark Jones and others.

TEXTILE MILLS

Ala., Anniston—Hosiery.—United Hosiery Mills organized with authorized capital stock of \$100,000; has 65x110-foot brick building; will install 65 knitting machines; has equipment: Samuel C. Mead, president; L. V. Moore, secretary. (This is plant mentioned last week.)

Ga., Lagrange—Cotton Cloth.—Dunson Mills awarded contract to Pike Bros. Lumber Co., Lagrange, to erect main building, of brick, 132x572 feet, two stories, with one story weave shed, costing about \$96,000; will install 20,000 spindles, 400 to 500 looms, steampower plant, etc.; equip 1200 horse-power steam plant, costing about \$26,000; erect 100 cottages for operatives; all machinery contracts awarded and amount to about \$300,000; president, J. E. Dunson; secretary-treasurer, T. J. Thornton; architect-engineer in charge, J. E. Sirrine of Greenville, S. C. (Company's organization with \$500,000 capital stock and plan heretofore stated.)

N. C., Morganton-Hosiery.-R. B. Moore and T. L. Sigman plan organization of \$15, 000 stock company to install hosiery knitting machinery.

N. C., Statesville—Sheeting, etc.—Statesville Cotton Mills, will add 3000 spindles, with carding machinery; has awarded contracts.
S. C., Calboun Falls—Print Cloth.—Calboun

S. C., Calhoun Falls—Print Cloth.—Calhoun Mills expects, it is rumored, to increase to 40,000 spindles in future; now has 25,600 ring spindles, 600 broad looms, etc., driven by electric power.

S. C., Greer—Sheeting.—Greer Manufacturing Co. will increase capital stock from \$200. 000 to \$350,000; now has 10,240 ring spindles 280 broad hooms, etc.

S. C., Spartanburg-Bag Goods.-Union Cotton Bagging Corporation, Norfolk, Va., wi.destablish branch. (See "Textile Mills.")

Tenn., Springfield — Woolen Blankets.— Springfield Woolen Mill Co. will erect additional building costing \$2500; awarded contract to E. T. Lewis & Co., Nashville, Tenn,

Tex., Cuero—Sheeting, Duck, etc.—Gaudalupe Valley Cotton Mills is name of Cuero cotton factory under reorganization; will expend \$50,000 for improvements; erect 60x 100-foot addition to main buildings and build additional warehouse and opening-room; purchased picker, carding and spinning machinery to increase daily capacity to about 5000 pounds; adding 2000 spindles; award building contracts in April; overhaul old machinery; equipment will be 8000 spindles, 160 looms, etc. (Lately mentioned.)

Tex., San Angelo-Woolen Goods.—Chamber of Commerce, Thor F. Owen, secretary, is not prepared to announce names and addresses of parties contemplating establishment of woolen mill lately mentioned; plant will probably cost \$150,000.

Va., Norfolk—Bag Goods.—Union Cotton Bagging Corporation chartered with \$300,000 capital stock and acquired Margolius Company; will continue Norfolk plant and establish branch at Spartanburg, S. C.; probably install additional picker, garnetting and mixing machinery; president, R. Margolius of Norfolk; vice-president, Lawrence S. Holt, Jr., of Burlington, N. C.; secretary-treasurer, J. Harper Erwin of Durham, N. C. (See "Machinery Wanted.")

WATER-WORKS

Ala., Ashville.—Town is considering construction of water-works. Address Town Clerk.

Ala., Fayette, — City is considering construction of water-works. Address The Mayor.

Ala., Greenville.—City voted issuance of \$15,000 of bonds for purchase of duplicate parts for pumping station of municipal water-works and to pay interest on city's bonded indebtedness. Address The Mayor.

Fla., Fort Dade.—Government will extend water-works; receive bids until April 29. Address Constructing Quartermaster. (See "Machinery Wanted.")

Ga., Fairburn.—City has issued \$20,000 of bonds for construction of water-works. Address The Mayor. (Previously mentioned.)

Ga., Summerville (Richmond County), P. O. Augusta.—City voted issuance of \$30,000 for extending water-works and sewerage system; Alfred Cuthbert, intendant. (Recently mentioned.)

Ga., Thomaston.—City will vote May 1 on issuance of \$45,000 of bonds for construction of water-works and sewerage system. Address The Mayor.

La., New Orleans.—Sewerage and Water Board contemplates expending \$200,000 for extension of water system and \$1,850,000 for connections to water mains and sewers to property line and water meters; W. J. Hardec, City Engineer. (See "Sewer Construction.")

Md., Baltimore.—Board of Awards, J Barry Mahool, president, will receive bids until April 26 for furnishing, delivering and erecting, complete, 30,000,000-gallon vertical triple-expansion pumping engine, two batteries of two boilers each, the necessary steampiping between engines and boilers, etc., (recently noted) for Mt. Royal Pumping Station, according to specifications by Water Engineer. Alfred M. Quick. (See "Machinery Wanted.")

Md., Cumberland.—City will vote May 16 on Issuance of \$500,000 of bonds for new water supply: J. H. Fuertes, engineer, of New York, prepared plan which was adopted by City Council calling for gravity supply from Evitts Creek, about nine miles from city; water is to be filtered in open reservoir; daily supply 6,000,000 gallons. (Recently mentioned.)

Miss., Seminary.—City voted issuance of \$10,000 of bonds for construction of waterworks and completion of school building. Address The Mayor.

N. C., Murphy.—City is completing arrangements for construction of proposed waterworks; \$25,000 of bonds have been issued. Address The Mayor.

Okla., Ada.—City will receive bids until April 10 for extension and improvement of water-works: \$150,000 bond issue recently reported: Goodwin & Harper, 920 Scarritt Bldg., Kansas City, Mo., are consulting eugineers; W. B. Jones, City Clerk. (See "Machinery Wanted.")

Okla., Altus.—City awarded contract to Terry Construction Co., Poteau, Okla., for completing ditching, about four miles, for water and sewer systems. II.

Okla., Fairfax.-City awarded contract to Davidson, 435 Lee Bldg., Oklaho City, Mo., are engineers.

City, Mo., are engineers.

Okla., Oklahoma City.-City has plans and specifications for new sedimentation basin, 200 feet long, 100 feet wide and 12 feet deep. which will increase capacity of present puri-fication plant at water-works by about 5,000,-900 gallons daily; Vincent Shinkle, superintendent of water-works.

Okla., Sapulpa.—City has engaged Burns & McDonnell, Dwight Bldg., Kansas City, Mo., as engineers in charge of constructing prowater-works: plans being prepared: hids will be invited in April; estim

Okla., Stillwater.-Citizens' Water Co. in corporated with \$10,000 capital stock by J. L. Bishop, M. W. J. Holt, Sam Miller, J. W. Thatcher and H. B. Bullen.

S. C., Columbia.-City will construct wat mains with appurtenances on Gervais St. from Main to Huger St.; bids received until April 11; F. C. Wyse, engineer-superintendent, (See "Machinery Wanted.")

Tex., Granbury.—Granbury Water, Light, lee & Power Co. Incorporated with \$30,000 capital stock by R. Vickery, W. T. Pittman and James W. Rockaday.

Tenn., Dayton.-City will vote on issuance \$25,000 of bonds for construction of water-rks; K. M. Benson, Mayor.

Tex., Sherman.-Superintendent of water-Tex., Sherman.—Superintendent of water-works will receive bids until May 8 on equip ment and machinery for water-works recent ly noted; specifications on file at office of Barney C. Kreager, City Secretary. (8ed Barney C. Kreager, City Secretary.
'Machinery Wanted.'')

Sparta. - J. A. Wilson purchase Tenn.. Sparta Water Co.: will extend and improve

Tex., Alvin.—City Council granted fran-chise to T. P. Majors and W. C. Hunt to construct water-works.

Tex., Olney,-City's water system will conrise 2000 feet of 8-inch and 3500 feet of 6-inch mains, fireplugs, well, pump, pumping station and tower 100 feet hi P. McCutchen, Mayor. (Bond issue of \$16,000 recently reported voted.)

Va., Barboursville. granted franchise to D. A. Allen for con struction of water-works.

W. Va., Romney.-City voted issuance nds for construction of water-works; count \$15,000; reservoir will be established Mechanicsburg Gap; A. N. McKeever,

W. Va., Wheeling.—City Council voted to increase amount of bond issue for construc-tion of filtration plant from \$200,000, as lately stated, to \$300,000; C. B. Cooke, City Engl-

WOODWORKING PLANTS

Ark., Prescott-Staves and Heading.-Prescott Stave & Heading Co. (not incorporated) cott Stave & Heading Co. (not incorporated), Geo. A. Hosmer, manager, will establish stave and heading factory; machinery pur-chased; building to be erected by Mr. Hos-mer; Harry Gund interested. (Gund Brew-ing Co. recently incorrectly noted to estab-lish this plant.) lish this plant.)

Ky., Henderson — Wagons, — Henderson Wagon Works (recently noted incorporated with \$30,000 capital stock) is reorganization of Coquillard Wagon Works; manufactures agons, trucks and drays

La., Pollocksville-Handles, Spokes, etc. -Pollocksville Spoke & Handle Co, incorporated with \$25,000 capital stock by J. H. Simmons, H. A. Chadwick, J. H. Bell and

Miss., Jackson-Seating, etc.-Capital Man-ufacturing Co. has purchased N. A. Price School Seating Factory and will continue to manufacture seating, school furniture, bank fixtures, etc. (Recently reported incorpo-rated with \$30,000 capital stock by J. M. Hat-field and A. H. Longino.)

N. C., Hickory-School Desks.-Ivey & Hick Company has reorganized as Ivey Manufac-turing Co. by George F. Ivey, W. H. Nich-olson and others; will continue to manufacture picker sticks and lug straps in addition to school desks.

, Forest City—Buggies.—... ontemplates establishment of plant to '....orlog (See "Machinery C., Forest City-Buggies.-J. E. McFarmanufacture buggies. Wanted.")

Lambeth Furniture Co., J. W. Lambeth, manager, awarded contract to Lindsay Mayers, Thomasville, for rebuilding plant recently reported burned; two and three stories; 50x 150 feet; ordinary construction; sprinkler system; will open bids for machinery April ing damaged; loss \$15,080.

6: cost \$12,000 to \$15,000. (See "Machinery Wanted."

Okla., Atoka-Handles.-National Lumbe & Manufacturing Co., Wm. Bassett, presi-dent, contemplates installation of handle machinery. (See "Lumber Manufacturing" and "Machinery Wanted.")

Tex., Fort Worth-Wagons.-Fort Worth Wagon Factory, recently reported incorpo-rated with \$150,000 capital stock by Warren Heaton, Neosho, Mo., and others, has begun election of plant on Fostepeo Heights; main building will be 70x350 feet, stockroom 70x75 feet, warehouse 70x290 feet, two-story dry-klin 25x100 feet, paint shop 75x150 feet, and boiler and engine room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the control of the room 40x50 feet; initial called the room 4 pacity will be 5000 wagons annually, which will later be increased to 10,000 wagons anmachinery purchased; no co

Tex., San Antonio-Furniture,-H. L. Breiniz contemplates, it is reported, one of furniture factory.

Va., Briery-Spools, etc.-Joseph L. Pear-son & Son, Keysville, Va., will, it is report-ed, establish saw and planing mill in Briery and install equipment for manufacturing and spools and bobbins

Va., Richmond.-Fulton Woodworking Co. incorporated with \$15,000 capital stock; P. L. Conquest, Jr., president; N. W. Hubba treasurer, both of Richmond; L. T. Marye, secretary, Ashland, Va.

W. Va., Huntington—Sash, etc.—Hunting-ton Sash, Door & Trim Co. incorporated with \$75,000 capital stock by C. L. Ritter, W. F. Kahler, J. W. Lawton and others,

BURNED

Ala., Birmingham.-T. A. Darden's resi-

Ala., Favette.-Following losses rted: Robe tional to those recently reported: Robertso & Dodds, \$100,000; W. M. Cannon, \$30,000 Smith, Dodson & Co., \$12,000; Walker Brok & Co., \$10,000; S. J. Cannon, \$10,000; F. A. Nuchols & Co., \$6000; Beasley & Wr \$1500; Odd Fellows' Lodge, \$3000; Dr. J Branyan, \$7000; W. A. Anderson, \$2000; B Hamner, \$4000; Miss E. Shepherd, \$5000. Wright

Ala., Gadsden.-J. L. Echols' residence.

Aln., Gadsden.-W. D. Pinkard residenc on S. 4th St., owned by Mrs. F. W. Bellen ger; loss \$3000.

Hartford.-James Lommons' resi

Ala., Montgomery. — Southern Cotton Oil Co.'s 22 seedhouses, hullhouse and fertilizer plant; loss \$75,000 to \$100,000.

Ark., Fayetteville.—Bates Ruebell's grocery store, loss \$4000; McAdams Drug Co.'s build-ing, loss \$6000; Fallis Bros, store, loss \$3000.

Ark., Pine Bluff.-Leo M. Andrews' stable etc. : loss about \$18,000,

D. C., Washington.—Geo. W. Robinson's warehouse in rear of H. I. 2d and 3d Sts. S. W.; loss \$3500; building at 1329 F St. N. W., owned by Virginia Miller and Annie G. Murray; loss \$5000.

Fla., Jacksonville.-Blue Ridge Distillery o's plant; estimated loss \$20,000

Fla., Palatka.-Wilson Cypress Co.'s plant. Fla., Pensacola.-J. D. Waters' residence at 18th St. and Fourteenth Ave.

Fla., Tampa.-Y. F. O'Halloran & Co.'s cigar factory; loss \$5000.

Fla., Tampa. - State Fair Association's grandstand and sheds at West Tampa racetrack: loss \$50,000.

Ga., Athens.-C. B. Griffeth's residence; loss \$10,000 to \$12,000,

Ga., Canton.—Georgia Works; loss about \$100,000. Marble Finishing

Ga., Clem.-W. A. Aderhold's office; J. J. Highway & Sons' store.

Ga., Jackson.-Chas, L. Maddox' residence in Iron Springs district.

Ga., Macon. — Residences of Oscar W. Hayes, Geo. Wing, Jr., and J. B. Whitehead; luss \$30,000,

Ga., Thomaston.-Murray Hotel, J. P. Murray, loss \$10,000; A. C. Adams' residence, owned by R. E. Hightower, loss \$3000.

Ga., Washington.—L. L. Le Roy's residence; loss \$3500.

Ga., Willacoochee. — Georgia Southern & Florida Railway's depot; W. C. Shaw, chief engineer, Macon, Ga.

Ky., Homer.-J. W. Stewart's residence.

Kv. Honkinsville.-Benevolent Protective er of Elks' building; loss \$20,000.

Ky., Moscow.—Moscow Roller Mills, owned by W. S. Burnett; loss \$19,000.

Ky., Middleshoro.-Dr. Edward Wilson'

Ky., 'Paducah. - J. A. Christian & Co.'s 88 \$20,000

Ky., Paducah.—Stave factory owned by Edwin Farley, State Treasurer, Frankfort, Ky.; loss about \$10,000.

Ky., Princeton. - Blake & King's store uilding; loss \$12,000.

La., New Orleans. - Philip Bemmerrite's and residence; le

La. Onelousas - Lacombe Hotel.

La., Patterson.-F. B. Williams Cypress Co.'s plant; reported loss, \$5000.

Pollock.-James Walker & Son's sto loss \$4500; Willett Bros.' store, loss \$7500 Van Eaton Hotel; Masonic Temple; Clinton reantile Co.'s building; Pollock News Co.'s e; J. M. Bonnettee's residence and office; its Ball's two residences; A. L. Honeycutt's dwelling and business building, etc

Md., Baltimore.—Building at Sharp and Pratt Sts., owned by H. Knefely & Sons, 5 E. Pratt St.; ocupied by Hopkins Tailoring Co. and Meyer Witgenstein & Co.; loss \$15,000

Md. Raltimore.-Stable building at Carroll ss about \$6500; J. Barry Mahe

Corbett.—Edward Triplett's barn. Tex \$4000, Mrl.

Md., Emmittsburg. - Emmittsburg Broom factory ; loss \$4000 to \$5000

Md., Federalsburg.-Harry M. Carroll's : loss \$5000

Md., Hagerstown,-Henry Canby's barn.

Miss., Forest.-Forest Gin & Manufacturing

Miss., Hickory .- C. G. Weatherford's saw-

Miss., Natchez.-Rabbi S. G. Bottigheimer's : Iosa \$3500

Miss., Vicksburg.-Henry Stout residccupied by Thos. Mackey : loss about \$10,000. Miss., Vicksburg.-Lake House.

Mo., Moberly, - J. W. Ingram's grocery store; William Magnus' store; Mayflower Hall; C. W. Magnus' sanitarium; total loss,

N. C., Biscoe.-Biscoe Foundry & Machina Co.'s shops: estimated loss \$10,000

N. C., Granite Falls.—Teague & Cline's tore; postoffice; W. C. Starnes' printery; an & Starnes' store : loss \$10,000

Okla., Lawton.-Crites Broom Co.'s factory: estimated loss, \$5000

Okla., Kelleyville.-Russell Hotel, etc.; loss Okla., Sapulpa.-E. L. Newport's pressing

C., Bishopville.—Wm. M. Reid's residence; loss \$4000.

8. C., Edgefield.-W. E. Outzs' residence.

8. C., Fairfax.-W. E. Harter's warehouse; oss several thousand dollars.

S. C., Kershaw.-Cash Nelson's residence.

N. C., Scotland Neck.—Graded school building; loss about \$10,000. Address The Mayor,

S. C., Foreston.-J. H. Boswell's building: loss \$3500

Tenn., Etowah.—Samuel Steed's residence. Tenn., Nashville.—Gillette Grain Co.'s elevator and warehouse; estimated loss, \$20,000.

Tex., Cleburne,-Farmers' Union Warehouse: loss \$7000.

Tex., Fort Worth.-Gus Riddleman estate's

Tex., Jacksonville, - Jacksonville Steam Laundry : loss \$3000. Tenn., Jellico.-I. Glickman's store build-

ing: loss \$5000. Tenn., Memphis.-A. D. Gibson & Sons'

furniture store : loss \$7000.

Tenn., Waverly.—R. P. Rogers' residence; loss \$4000.

Tex., Caldwell.-G. W. Lee's residence; loss

Tex., Center.-J. C. Rogers' drug store.

Tex., Knox City.—C. J. Gooding's store, owned by Farmers' State Bank; West Texas Supply Co.'s building, loss \$25,000.

Tex., Megargel.—H. R. David building wined by Joe J. Cross,

Tex., Paducah.-J. A. Christian & Co.'s hardware store and Masonic Temple, loss \$25,000; J. T. Rutledge's grocery store, loss \$10,000; Goodwin Hotel damaged.

Tex., Van Afstyne.—E. E. Boyd's stable; Major & Berry's blacksmith shop; Major & McBride's corn mill.

Va., Newport News,-Chesapeake & Ohlo Va. Newport News.—Chesapeake & Ohio Rallway's machine, blacksmith and wood-working shops; estimated loss, \$29,000; F. I. Cabell, chief engineer maintenance of way, Richmond, Va.

Va., Norton.-Norton Steam Laundry, not Norton Bakery as recently incorrectly re-

Va., Richmond,-Kentucky Tobacco Co.'s se ; loss \$10,000

Va., Staunton.—Rev. R. A. Glöson of Rich-nond, Va., states his buildings were not destroyed by fire. (Recent report Incorrect.)

W. Va., Glen Ferris.—Electro Metalurgical Co.'s alloy plant; estimated loss, \$150,000.

W. Va., Herndon.-Keys-Fannin Lumber Co.'s planing mill; loss about \$8000,

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

Ala., Gadsden.-T. S. Kyle is reported to rect apartment-house; brick; about 200-foot frontage: cost \$18,000 to \$20,000.

Fla., Tampa.-Mrs. C. C. Whitaker bas plans by Shaw & Larner, Tampa, for pro-posed apartment-house, and will receive bids for erection; two stories; frame; finished in stained cypress; site 40x65 feet.

Ky., Louisville.—Oscar Stutz, Jr., 102 W. Market St., will erect brick apartment-house: cost \$4500; plans by A. R. Smith, Louisville.

Md., Baltimore.—New Era Realty & Construction Co., Whitelock St. and Brookfield Ave., will erect double apartment-house on Whitelock St. near Brookfield Ave.: 72x72 feet; fireproof construction; electric lights; hot-water beat; cost about \$30,000; plans by Louis Levi, American Bidg., Baltimore.

Mo., Kansas City.-T. C. Mitchell will erect wo brick apartment-houses; cost \$20,000.

Mo., Kansas City.—J. H. Howell will erect brick apartment-house; cost \$15,900.

Mo., St. Louis.-E. L. Wagner Constru will erect three-story apartment-house; cost \$20,000.

Tex., Houston.-J. J. Sweeney will erect apartment-house; two stories; brick; cost \$25,000.

Va., Martinsburg.-E. F. Millard will remodel building on North Queen St. for stores and apartments; cost \$5000.

ASSOCIATION AND FRATERNAL

Ga., Waycross.—Waycross Nest of Owls plans to erect building.

Mo., St. Louis,—Benevolent Protective Or- 19 st

der of Elks, St. Louis Lodge, No. 9, will erect addition to auditorium; cost \$18,000.

N. C., Raleigh.-Agricultural and Mechan ical College plans to erect Christian Association building.

N. C., Raleigh,—Young Men's Christian As-sociation completed fund and will erect pro-posed building to cost about \$75,000; Dr. Huert Royster chairman of building tee. (Recently to have opened campaign to raise this fund.)

raise this fund.)

Okla., Boley.—E. T. Barbour, secretary
Masonic Temple Commission of St. John's
Grand Lodge, Ancient Free and Accepted
Masons, El Reno, Okla., will receive bids
until 1 P. M. April 27 to erect Masonic
grand temple for colored Masons at Boley;
certified check for 5 per cent. amount of
bid, payable to above commission; plans and
apecifications at offices of following: T. Li. bld, payable to above commission; plans and apecifications at offices of following: T. Ii. Traylors, 14 W. California Ave, basement. Oklahoma City, Okla.; W. H. Twine, Twine Bldg., Muskogee, Okla.; E. O. Tyler, Haynes Bldg., Boley: C. A. Buchanan, Safeguard Office, Guthrie, Okla.; II. C. Price, 161 D. Ave., Lawton, Okla.; D. W. Lewis, attorney-at-law, Kingńsher, Okla.

Tex., Fort Worth,-Young Men's Christian Association inaugurated campaign to re \$12,000 to improve and furnish building.

Va., Roanoke.—Young Men's Christian Association contemplates erection of building; cost not less than \$100,000.

BANK AND OFFICE

Ala., Mobile.-Equitable Life Association Is orted to erect office building; not less than dories; cost about \$250,000.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Fla., St. Petersburg.-First National Bank will enlarge building.

Fla., Tampa.—Citizens' Bank & Trust Co. is having plans prepared by Francis J. Kennard, Tampa, for bank and office building; S or 10 stories; steel skeleton; at least 150 offices.

Fla., Tampa.—H. C. Giddens and T. C. Tallaferro will receive bids to erect three additional stories to Giddens Building; certified check for \$500, payable to owners; plans and specifications at office of Francis J. Kennard, architect, Tampa, or may be had on deposit of \$25.

Fla., Tampa.—I. S. Giddens and L. L. Buchanan will receive bids to creet two additional stories to American National Bank Building; certified check for \$590, payable to owners; plans and specifications at office of Francis J. Kennard, architect. Tampa, or may be had on deposit of \$25. (Recently noted.

Ga., Macon.—Claud Estes will erect office building; eight stories; cost \$175,000.

Ga., Milner.—Farmers' Bank organized with L. O. Benton, president, Monticello, Ga.; will erect bank building.

La., New Orleans.—Mergenthaler Linotype Co. has plans by Diboll, Owen & Goldstein, Perrin Bldg., New Orleans, for reinforced concrete fireproof building; five stories; 40x130 feet; brick veneer; terra-cotta trimmings and cornice; steam heat; bids opened; to be completed by September 1.

N. C., Hickory.-Dr. E. R. Russell, Asheville, N. C., will erect office building.

N. C., Raleigh.—Berry O'Kelly will erect office building: three stories.

Okla., Muskogee.-A. Y. Allen will erect five-story office building.

S. C., Anderson.-W. L. Brissey will erect office building and showrooms.

office building and showrooms.

Tex., Longview. - First National Bank awarded contract to erect bank building; four stories; brick. (Recently noted.)

Tex., New Braunfels.—New Braunfels State Bank will receive bids until noon April 12 for erection of two-story bank building.

Tex., Palacios.—Palacios State Bank, H. B. Harwell, president, contemplates erection of bank building. (Recently noted.)

Va., Manassas.—W. N. Lipscomb will rebuild office and store building recently reperted burned; cost \$10,000. (See "Stores.")

Va., Norfolk. — Talbot estate will erect store and office building.

Va., Richmond. — Main Street Bank, V. Hechler, chairman, will erect 40-foot addition to brick bank building; cost \$8596.

Va., Richmond. — Richmond Beneficial Insurance Co. will erect three-story brick office building; cost \$15,000.

W. Va., Charleston.—Bowen Realty Co. will erect office and business block.

W. Va., Falling Springs.—Bank of Renick will open bids April 11 for erection of bank building recently noted; 24x40 feet; one story; brick and pressed brick; cost \$3500; plans by S. E. Pace, Covington, Va. (See "Machinery Wanted.")

CHURCHES

Ark., Warren.—First Presbyterian Church, Rev. J. F. Lawson, pastor, has not selected architect to prepare plans for edifice; probably pressed brick; steam or hot-air heat; electric lighting; concrete sidewalks; cost \$15,000. (Recently noted.)

\$15,000. (Recently noted.)

Fla., St. Petersburg. — Congregational Church, Rev. N. Matthews, pastor, is having plans prepared by Edgar Ferndon, architect, St. Petersburg. for edifice: 80x90 feet; two entrances: auditorium 80x50 feet; seating capacity 500; chapel 32x40 feet; primary classroom 16x26 feet; artificial stone backed with brick: memorial and stained-glass windows; four towers; cost about \$20,000. (Recently noted to erect edifice.)

Fla., St. Petersburg.—Lutheran congregation will erect edifice. Address The Pastor, Lutheran Church.

Fla., Tampa.—Rev. W. F. Murray of Louis ville, Ky., and Rev. J. M. Moore of Nashville, Tenn., are interested in erection of edifice.

Ky., Elkton.—Methodist Episcopal Church, Rev. R. B. Grider, pastor, will open bids about May 15 to erect edifice recently noted; Grecian architecture; 52x64 feet; ordinary construction; steam heat; electric lighting; concrete walks; cost \$14,000; plans by Clifford Shopbell & Co., Evansville, Ind.; address proposals to E. R. Weathers, Sr. (See "Machinery Wanted.")

Ky., Lexington.—Christ Church Cathedral plans to erect \$30,000 edifice and parish-house Address The Pastor, Christ Church Cathedral Ky., Winchester.—Central Baptist Church has plans by Edward Stamler, Lexington, Ky., for \$20,000 edifice. (Recently noted to erect church.)

La., Bunkie. - Presbyterian congregation will erect edifice; W. A. Ziegler, pastor.

La., Shreveport.—Noel Memorial Church, Rev. Francis A. Downs, pastor, will expend about \$40,000 to erect edifice.

Md., Annapolis Junction.—Junior Republic is having plans prepared by Bissell & Zinker. Philadelphia, Pa., for chapel; probably stone construction.

Md., Kensington.—Rev. Charles O. Rosensteel, pastor of St. John's Church, Forest Glen, Md., is interested in erection of proposed Catholic church; cost about \$4000.

Md., Cumberland.—Zion Reformed Church will erect edifice. Address The Pastor, Zion Reformed Church. Md., Midland.—Presbyterian, congregation

plans to erect edifice; Bev. Stanley Jewell pastor, Barton, Md.

N. C., Danbury. — Methodist Episcopal Church South will erect edifice; 24x35 feet; O. J. Cates, James Lasley, C. R. Hutcherson and others are interested.

N. C., High Point.-Washington Street Methodist Episcopal Church will creet edifice; J. W. Harris is on committee.

N. C., Tarboro.—St. James Methodist Episcopal Church, Rev. McWirter, pastor, has plans by Wheeler & Stern, Charlotte, N. C., for edifice; 70x90 feet; ordinary construction; heating not decided; electric lighting; cost \$15,000. (See "Machinery Wanted.")

N. C., Winston-Salem.—West End Methodist Episcopal Church is having plans prepared by Wheeler & Stern, Charlotte, N. C., for proposed edifice; Gothic style; Oriental effect; brick; marble and terra-cotta trimmings; main auditorium to seat 500 and balcony to seat 200; cost about \$50,000. (Previously noted.)

Okla., Tulsa.—Rev. J. C. Magee, pastor of Methodist Church, is promoting erection of edifice.

8. C., Greenville.—First Lutheran Church plans to erect edifice; C. F. Lagerholm, W. A. Hantske and H. C. McKnight, trustees.

S. C., Rowesville.—C. D. Hydrick is interested in erection of Baptist church.

Tenn., Bristol.—First Methodist Episcopal Church, Rev. W. F. Pitts, pastor, has plans by Wheeler & Stern, Charlotte, N. C., for edifice recently noted; 75x76 feet; ordinary construction; heating not decided; electric lighting; cost \$15,000; date of opening bids not decided. (See "Machinery Wanted.")

Tenn., Bristol.—First Baptist congregation will erect \$50,000 edifice. Address The Pastor, First Baptist Church.

Tenn., Chattanooga.—Centenary Methodist Episcopal Church contemplates erection of edifice. Address The Pastor, Centenary Methodist Episcopal Church.

Tenn., Dickson.—Presbyterian Church will erect edifice. Address The Pastor, Presbyterian Church.

Tenn., Memphis.—8t. Luke's Episcopal Church, Rev. H. W. Wells, Rector, has plans by John Gaisford, Memphis, for edifice; brick; white marble trimmings; cost \$33,000 to \$35,000.

Tenn., St. Elmo.—St. Elmo Methodist Episcopal Church South, Rev. W. L. Sarrell (not W. L. Correll, as recently noted), pastor, will expend \$25,000 to erect edifice; plans by R. H. Hunt. Chattanooga. Tenn.

Tex., Asherton.—Baptist congregation will erect edifice. Address The Pastor of Baptist Church.

Tex., Bonham.—First Christian Church. F. M. Thompson, chairman building committee, has plans by Sparger & Peters, Bonham. for edifice; 80x100 feet; reinforced concrete and brick; steam heat; electric lighting; cost \$20,000; date of opening bids not set. (Recently noted.)

Tex., Cuero. — Presbyterian congregation contemplates erection of \$20,000 edifice. Address The Pastor of Presbyterian Church. (See "Dwellings.")

Tex., Poth. — Catholic congregation will erect edifice. Address The Pastor, Catholic Church.

Tex., Hillsboro.—First Presbyterian Church is having plans prepared for \$15,000 edifice. Address The Pastor, First Presbyterian Church.

Va., Luray.—Mt. Carmel Baptist Church will erect edifice to replace present structure; 40x40 feet. Address The Pastor.

Va., Richmond. — St. James' Episcopal Church has plans by Noland & Baskerville, Richmond, for edifice; classic design; Dorle pillars in front; cost about \$100,000.

Va., South Boston.-H. M. Miller, Roanoke,

Va., will have plans ready for bids in about three weeks to erect edifice for Baptist congregation; seating capacity of auditorium and Sunday-school room 1200; hot-air heat; electric lighting; R. S. Barbour, chairman building committee. (Recently noted.)

W. Va., Fayetteville.—Presbyterian congregation will erect edifice; brick or stone. Address The Pastor of Presbyterian Church.

CITY AND COUNTY

Ala., Decatur—City Hall, etc.—Mayor and City Council will meet April 18 to select plans for city hall, fire station and city jail; 85x85 feet; cost \$20,000; will advertise for bids. (Bond issue for city hall recently noted.)

Ala., Huntsville—City Hall and Public Offices.—City will erect city hall and public offices; 88x145 feet; fireproof construction; steam heat; electric lighting; electric sidewalk lights; water-power elevator; cost \$100,000; architect not selected. Address R. E. Smith. (Recently noted to vote \$100,000 bond issue.)

Fla., Bartow-Library.-City proposes erection of \$8900 Carnegie Library; S. S. Greene, fibrarian.

Ga., Statesboro — Fire Department.—City will soon award contract to erect fire-department building with stable in rear. Address The Mayor.

Ky., Bowling Green — Armory. — Warren county contemplates erection of armory and annex to jail; drillroom 73x61 feet; cost about \$7000. Address County Commissioners.

Ky., Middlesboro—City Hall, Carnegie Library, etc.—City will erect city hall, jail, fire department building, etc.; also erect library building; former two stories; 123x135 feet; pressed brick and stone; cost \$75,000; treasurer's office to have fireproof vault; jail building three stories; cells equipped with four-inch steel doors; fire department to accommodate three fire apparatuses, six stalls for horses, etc., on first floor; proposed library will cost about \$30,000. Address Mayor Helburn.

La., New Orleans — Engine-house. — City opened bids to erect engine-house at North Carrollton Ave. and Moss St.; Petty & Irwin, New Orleans, are lowest bidders at \$11,790. (Previously noted.)

Md., Rockville.—Montgomery County Commissioners, Jos. T. White, president, Boyds, Md., are considering erection of jail.

Okla., Jay-City Hall.-City will erect city hall. Address The Mayor.

Okla., Oklahoma City—Hospital.—Bob Parman, City Clerk, will receive bids until 5 P. M. April 8 for completion of second and third floor of General Hospital and for hospital laundry and ambulance barn at Second and Stiles Ave.; certified check, payable to Mr. Parman, for 3 per cent. amount of bid; plans and specifications at office of Geo. F. Schreiber, architect, 308-10 Baum Bidg., Oklahoma City. (City recently noted to have voted \$25,900 bond issue for hospital.)

Tenn., Chattanooga-Jail.-Hamilton county proposes issuing \$100,000 of bonds to erect jail. Address County Commissioners.

COURTHOUSES

(ia., Hinesville,—Liberty County Commissioners are having preliminary plans prepared by Chamberlain & Co., Birmingham, Ala., for courthouse to cost \$30,000; E. C. Miller, clerk. (Recently noted.)

Ky., Middlesboro.—Bell County Commissioners will erect courthouse.

Okla., Jay.—Delaware County Commissioners will erect courthouse. Address County Commissioners.

Okla., Nowata.—Nowata County Commissioners have plans by J. W. Roberts, Claremore, Okla., for courthouse; 88x112 feet; fireproof construction; cost \$70,000; will advertise for bids about April 20. (Recently noted.)

DWELLINGS

Ala., Alabama City.-R. B. Kyle, Gadsden, Ala., will erect eight-room residence; construction begun.

Ala., Birmingham.—Oscar R. Hundley will erect two-story frame dwelling: cost \$16,000, Ala., Birmingham.—Dr. McLester will erect residence: two stories: frame: cost \$5000.

Ala., Birmingham.—Sallie A. Haggard will erect two-story frame dwelling to cost \$3600, and one-story frame dwelling to cost \$1500.

Ala., Birmingham.—Sidney J. Bowie will erect two-story frame dwelling; cost \$15,000. Ala., Birmingham.—V. E. Whitiker will

Ala., Birmingham.—V. E. Whitiker will erect two-story frame dwelling; cost \$3200. Ala., Birmingham.—Pegram Meade will erect two residences; one story; frame; cost \$4000.

Ala., Birmingham.-Mrs. M. E. Mollenhoff will erect residence; cost \$3000.

Ala., Birmingham.-W. G. Tyler will erect residence; two stories; frame; cost \$3000.

Ala., Birmingham.—O'Rear & Hall will erect two two-story frame dwellings; cost \$4480.

Ala., Birmingham.—Pegram & Meade will erect two one-story frame dwellings; cost \$4000.

Ala., Boaz.-Samuel Leath plans to erect residence.

Ala., Gadsden.-C. S. Ward will erect residence to replace burned structure.

Ala., Mobile.—F. O. Christianson, W. J. Mabbs and L. L. Burr, all of Chicago, Ill., purchased 375 acres of land and will erect number of dwellings.

D. C., Washington.—Dr. G. P. Parton, 4511 Wisconsin Ave. N. W., has plans by Claughton West, 222 Oxford Bldg., Washington, for bungalow at Nebraska Ave. and 40th St. N. W.; two stories; 33x43 feet; cost \$6000.

D. C., Washington.—Edwin W. Dickle, 23 C St. N. E., has plans by Claughton West, 222 Oxford Bldg., Washington, for two twostory colonial dwellings on C St. near 3d St. S, W.

D. C., Washington.—A. R. Taylor, 804 I St. N. E., has plans by Conrad Chaney, Washington, for residence at 1213 Morse St. N. E.; two stories; brick; cost \$3590; construction by owner.

D. C., Washington.-W. A. Craig & Co., Equitable Bldg., will erect 15 two-story sixroom dwellings at Tennessee Ave. and C

D. C., Washington.—Kennedy Bros., 1336 H St. N. W., have plans by A. H. Sonneman, Chevy Chase, Md., for four three-story brick and frame dwellings at 3200 to 3206 18th St. N. W.: cost \$45,000.

D. C., Washington.—H. R. Howenstein, 1314 F. St. N. W., will erect two dwellings at 1130-34 Pennsylvania Ave. S. E.; two stories; brick; ordinary construction; furnace; plans by E. Hauser, 37 New York Ave. N. E., Washington; construction by owner.

D. C., Washington.—Milton Dana Morrill, Corcoran Bidg., Is preparing plans for group of cottages; poured-cement construction.

Fla., Jacksonville.—Porcher L'Engle will erect seven two-story frame dwellings.

Fla., Jacksonville.—D. S. D. Belliny will erect two-story frame dwelling.

Fla., Jacksonville.—Pompy Small will erect two-story frame dwelling. Fla., Redland.—J. L. Billingsley, Miami. Fla., will erect residence.

Ga., Atlanta.—Mrs. E. L. Bishop will not at present erect dwelling. (Recently noted.)
Ga., Atlanta.—C. W. Hunnicutt will erect dwelling; cost \$3000.

Ga., Augusta.—Mrs. D. R. Grooves will erect residence.

Ga., Statesboro. — Math Akins will erect residence.

Ga., Statesboro. — Mayor McDougal will crect residence. Ga., Statesboro.—Mrs. D. R. Groover will

erect residence.

Fla., St. Augustine.—C. P. Townsend will probably erect residence.

Ga., Lagrange.—Dunson Mills will build 100 cottages for operatives. (See "Textile Mills.) Ga., Savannab.—Mrs. Norah Foran will erect two-story dwelling.

Ga., Savannah.-H. O. Young will erect six two-story dwellings.

Ga., Savannah.—James W. Urquhart will erect residence. Ga., Savannah.—Mrs. John G. Butler will

crect residence.

La., New Orleans.—Jules Domecq will erect single frame cottage; cost \$4600.

La., New Orleans.—Mrs. Bolssoneau will rect residence; one story; frame; cost \$4000. La., New Orleans.—A. S. Lagman will rect double two-story residence; cost \$4200.

La., New Orleans. — Holy Trinity School will erect three double dwellings; cost \$7700.

La., New Orleans.-W. S. Dirker will erect two-story frame residence.

La., New Orleans.-J. D. Kavanaugh will erect double two-story residence; cost \$3000.

Md., Baltimore.—John J. Carlin, 215 St. Paul St., will expend \$12,000 to erect six dwellings; 14x50 feet; ordinary construction, steam heat; gas and electric lighting; cement sidewalks; plans by Stanislaus Russell, Clifton Ave. and 7th St., Baltimore; construction by owner. (Previously noted.) Md., Baltimore.—M. Filmore Carter will

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expend \$2000 each to erect 15 dwellings; 14x58 feet; ordinary construction; steam heat; gas and electric lighting; plans by Stanislaus Russell, Clifton Ave. and 7th St., Baltimore; nstruction. (Previously noted.)

Md., Baltimore.—James W. Amos has plans by Jacob F. Gerwig, 210 E. Lexington St., Baltimore, for four cottages on Calverton Rd. near Frederick Ave.; two stories; iron spot brick; marble trimmings; cost \$1200

Md Raltime re.-Crescent Realty Co. St. Paul St., will not erect dwellings at F est Park. (Recent report an error.)

Md., Baltimore.-Arthur F. Nicholson will etect 30x30-foot dwelling; ordinary construction; hot-water heat; gas and electric light ing: cost \$5000; plans and construction by

Md., Baltimore. - Harry C. Kalben, Courtland St., has plans by Callis & Callis, 2000 St. Paul St., Baltimore, for 20 dwellings on Robinson St. and Ellwood Ave.; two stories; brick; 13x46 feet; cost \$18,000.

Md., Baltimore.—P. L. Tunis will expend \$2500 to creet dwelling at Windsor Hills; 50x90 feet; frame; steam heat; gas and elec-tric lighting; plans by Henry J. Tinley, 314 N. Charles St., Baltimore; construction by (Recently noted.)

Md., Catonsville.-Salem Lutheran Church Md., Catonsvine.—Salem Latheran Church, Rev. John C. Bowers, pastor, is having plans prepared by Walter M. Gleske, 66 Gunther Bldg., Baltimore, Md., for parsonage; 27x34 feet; frame and stucco; slate roof; granite foundation.

Md., Howard County.-S. L. Murray, Lawyers' Hill, Howard county, is having plans prepared by George Worthington, Law Bldg., Baltimore, for alterations and additions to

Md., Mt. Washington.-Clarence G. Bouis North Ave., Mt. Washington, has plans by Owens & Sisco, 1605 Continental Bldg., Balti more. Md., for improvements to residence more, Md., for improvements to residence; two and a half stories; frame; cost about \$10,000; contractors estimating are Gladfelter & Chambers, 2072 Woodberry Ave.; Brown & Morgan, 15 E. Fayette St., both of Baltimore, Md.: Philip Watts, Pikesville, Md., and Israe Owins, Mr. Washington. (Recently errone-ously reported to be erected by S. S. Bouls, 64 Knickerbocker Bldg., Baltimore, Md.)

Miss., Meridian.—J. D. McInnis has plans by Burt Stuart, Rosenbaum Bldg., Meridian, for residence; two stories; colonial style; frame; furnace; electric lighting; cost \$7000; will open bids soon.

Miss., Vicksburg.-Chester Yerger will erect bungalow.

Mo., Kansas City.—Charles E. Phillips will erect frame dwelling; cost \$3500.

Mo., Kansas City.—B, Y. Moore will erect two residences; frame; cost \$3600.

Mo., Kansas City.—Russell Investment Co. will erect five frame dwellings; cost \$10,000.

Mo., Kansas City.-W. B. Weaver will erect frame dwelling; cost \$3500.

Mo., Kansas City.-P. J. Neff will erect hree frame dwellings; cost \$5500.

Mo. Kansas City.-J. D. Thomas will erect neer dwelling; cost \$5000.

Mo., Kansas City.-J. C. Simpson will creet brick ven eer dwellings; cost \$7800.

Mo., Kansas City.-P. S. Harris will erect tone dwelling; cost \$12,000.

Mo., Kansas City.-J. E. Biles will erect

brick dwelling : cost \$3500 Mo., Kansas City.-Kenneth Duncan will

erect frame dwelling : cost \$5500. Mo., Kansas City.-Robert T. Herrick will

erect stone dwelling : cost \$5000,

Mo., Kansas City.-W. O. Pennell will erect stone-veneer dwelling: cost \$5000.

Mo., Kansas City.—T. J. Danseth will erect brick-veneer dwelling; cost \$3000.

Mo., Kansas City.—J. W. Strain will erect frame residence; cost \$5300.

Mo., St. Louis.-Ro Ches Realty Investment & Building Co. will dwellings; cost \$18,000. will erect nine 112 story

N. C., Charlotte.—J. E. Curlee has plans by F. L. Bonfoey, Charlotte, for dwelling; two stories; 38x56 feet; frame; hot-air heat; electric lighting; cost \$4500. (See "Machin-ery Wanted")

N. C., Charlotte.—S. B. McLaughlin has plans by F. L. Bonfoey, Charlotte, for dwell ling; 30x45 feet; two stories; frame; crafts-man style architecture; stained-shingle roof; hot-air heat; electric lighting; cost \$4000; day labor.

N. C., Charlotte.-George P. Wadsworth n bids in about two weeks for erec tion of dwelling: 35x65 feet; two storles and basement; frame; 10 rooms and sleeping porch; three bathrooms; slate roof; Honey-well hot-water system of heating; electric lighting; cost \$6500; plans by Louis H. Asbury, Charlotte. Address architect.

N. C., Greensboro.—John T. Hunt will erect esidence; cost \$8000; size 42x70 feet; steam heat; electric conduit system of lighting; tile roof; plans by F. A. Weston, Greens-boro; construction by owner. (See "Machin-

N. C., Charlotte.-Walter W. Watt. Jr., h plans by Louis H. Asbury, Charlotte, for residence; two stories and basement; eight rooms and two baths: 43x62 feet: slate roof : hot-water heat : electric lighting out \$4500

N. C., Charlotte.-S. F. Conrad will onen bids in about two weeks for erection of dwelling; two stories and basement; 50x77 feet; two baths; hot-air heat; electric light lug; cost \$4000; plans by Louis H. As Charlotte. (See "Machinery Wanted.")

N. C., Charlotte,—F. C. Abbott has plans y Hook & Rogers, Charlotte, for residence; 0 rooms; stone and shingle.

N. C., Hickory.-W. B. Council will erect of cottages.

N. C., Hickory.-J. A. Lentz will erect two

N. C., Hertford.-W. R. White will erec

N. C., Monroe.—R. F. Beasley, editor Mon-roe Journal, has plans by Wheeler & Stern, Charlotte, N. C., for frame dwelling; 30x70 feet; two stories; heating not decided; elec-tric lighting; cost \$4000; date of opening bids not decided. (See "Machinery Wanted.")

N. C., Wadesboro,-R. T. Bennett will re cuild residence recently reported burned; eet long; one story; mill construction feet long; one story; (See "Machinery Wanted."

Okla., Oklahoma City.-II, W. Clegern will ect two dwellings

Okla., Muskogee,-Gordon Murray will erect

Okla., Muskogee,-N. B. Maxey will erect siden

Okla., Oklahoma Clty.-Harvey Garris will erect residence; two stories; frame and brick ; cost \$10,000.

Okla., Oklahoma City.-J. J. Culberts will erect residence; two stories; brick; this cost \$12,000.

Okla., Oklahoma City.—J. W. Mann will erect one-story six-room residence and two-story eight-room residence; cost \$2500 to \$5000; plans and construction by owner.

S. C., Camden.-W. J. Dawes, manager of Camden Brick Co., will erect brick residence.

S. C., Camden.—Henry G. Savage will make improvements to residence, including erec-tion of fourth story and porches.

Tenn., t ga.—T. C. Thompson has earden, Chattanooga, to Chattano Beard ans by C. E. Bearden, omodel residence; cost \$400.

Tex., Dallas.—C. O. Moser will erect reence; two stories; frame; cost \$3850.

Tex., Houston.-H. Yetter will erect five

Tex., Orange.-Home Mission Society he Methodist Church plans to erect pars age; cost \$3000,

Tex., Southland (not a postoffice).—A. B. Robertson has plans by Waller & Field, Fort Worth, Tex., for brick residence.

Tex., Victoria.—Robert L. Ferris has plans by Hull & Praeger, Victoria, for \$4000 resi-

will erect \$2500 manse and contemplates, is reported, erection of \$20,000 edifice. A The Pastor of Presbyterian Church

Va., Lynchburg.-Mrs. Janet W. Scruggs ect frame dwelling; shingle roof; cost

Va., Lynchburg.-J. Bryan Heard will erect shingle welling;

Va., Luray.-Clifford G. Bailey will erect

Va., Pulaski.—W. J. Harman is having lans prepared by Huggins & Bates, Roa-oke, for \$3000 residence.

Va., Richmond.-M. E. Johns will erect ry brick dwelling; cost \$5000.

Va., Richmond.-Luther Wright will erect vo-story brick dwelling

Va., Richmond.—Delaney & Gann will erect wo detached brick dwellings; cost \$10,000.

Va., Richmond.-Geo. Cole Scott will receive bids until April 10 to erect residence French style; brick and stone; cost \$65,000 plans by Noland & Baskervill.

Va., Roanoke.-W. T. Manning will erect wo story brick-cased dwelling; cost \$5000.

Va., Roanoke, —R. J. Wright will erect eight residences; nine rooms; cost \$3000 each; construction begun,

Va., Roanoke.-A. C. Needles has plans by

Woodstock .- J. D. Crabill will erect

Va., Clarksburg.-Dr. John Gardner Hyattstown, Md., has plans by B. Edward Kepner, Frederick, Md., for two-story frame dwelling: construction begun.

W. Va., Williamson.-R. N. Taylor will rect brick residence.

GOVERNMENT AND STATE

Ala., Ensley.—Treasury Department, Jam-Knox Taylor, supervising architect, wi erect postoffice building; cost about \$80,000.

Ark., Hope-Postoffice.-Treasury Depart-ent, Office of Supervising Architect, James Knox Taylor Sealed prop sals will be re Knox Taylor. Sealed proposals will be a ceived until 3 P. M. May 11, and then opene for construction complete (including plum ing. gaspiping, heating apparatus, electro condults and wiring) of United States por conduits and wirings of clinical states post office at Hope, Ark., in accordance with drawings and specifications, copies of which may be obtained from custodian of site at Hope or at this office at discretion of super vising architect.

Mo., Rolla - Federal Buildings.-Treasury bepartment, James Knox Taylor, supervis-ing architect, Washington, D. C., invited 67 architects to submit competitive plans for Federal buildings at Rolla, Mo.; Orange, N. J., and Waukegan, Ill.

J., and Waukegan, III.

Tex., Galveston – Quarantine Station. —

Treasury Department, James Knox Tayior,
supervising architect, Washington, D. C.,
will erect quarantine station, consisting of
executive building, one story, surrounded by
six-foot gallery; 10 rooms, etc., ornamental
trimings; tower rising nine feet above roof;
assistant's quarters one story, 54x38 feet, sixfoot sallery gight propus, medical effects. assistant's quarters one story, 54x38 feet, six foot gallery, eight rooms; medical officers quarters one story, "L" shape, 52x60 feet, seven rooms, surrounded by gallery; attendants' quarters one story, 86x20 feet, seven-foot balcony on three sides, six rooms; barracks 160x36 feet, surrounded by seven-foot balcony and to contain dormitory 36x42 feet, six rooms, and ball 7.6 feet; hospital building 54x38 feet, six-foot gallery, six rooms and two balls; disinfectant house 36x80 feet. two halls; disinfectant house 36x80 fee two halls; disinfectant house 35x80 feet connected with wharf by bridge; oilhouse storm refuge house on heavy pilling with bas-28 feet square, rising 17.6 feet above reserva-tion level; sheltered floor space 9x9 feet reached by iron ladders; executive building o be e ected by bridge to wharf 300 feet to be connected by bridge to whart 300 feet long; wharf to have 175 piling from 40 to 5' feet long, bulkhead 488 piling 14 to 38 feet long; buildings 321 piling 13 to 16 feet long; all piling creosoted, 14 and 24 pounds; build ing to be screened, equipped with electric lights, plumbing, water fixtures, etc., and cost from \$100,000 to \$125,000. (Recently noted to receive bids until May 6 for this station.)

W. Va., Salem—Girls' Home.—Girls' In-dustrial Home will erect additional build-ing; has \$20,000 appropriation; Wm. E. Glass-cock, Governor, Charleston, W. Va.

HOTELS

Ala., Fayette.-Mrs. Kate Garner will erect rick hotel to replace structure recently

Ga., Augusta. - Chamber of Commerce promoting erection of hotel to cost about \$450,000; T. S. Raworth, chairman of com mittee

Ga Normantown -C. S. Meadows is inter ted in erection of hotel.

Ky.. Louisville.—Neighborhood House, 428 bist St., will remodel structure and creet addition 45x59 feet; will remove number of walls in present building and extend "L" forward to front; cost of improvements, \$16,000

La., Donaldsonville.—J. E. Blum is pro-moting erection of proposed \$50,000 hotel; four stories; brick; elevators.

Miss., Vicksburg.-Park Hotel Co. incorpo rated with \$25,000 capital stock by Vincent Lavecchia, H. E. Rice, both of Vicksburg; Gaston Saux of Grunewald Hotel, New Orleans, La., and others.

La., and others.

N. C., Asheville,—Gay Greene and John Lange have plans by Smith & Carrier, Asheville, for hotel at N. Main and E. College 8ts.; seven stories; seven stores on first floor; main entrance will open into lobby 5ex70 feet; reception-room 27x35 feet; dining-room 50x80 feet; kitchen will be supplied with fresh air through ducts and extracted by spetion arguments which carry to flues. suction arrangements which carry to flues onnecting with main stack; first floor, ex-ept kitchen, will be of Numidian marble; lectric lighting, heating and refrigerating plants in basement; two passenger and one freight elevator; 80 of 105 rooms equipped with private baths; roof garden surre us supporting slate roof; ballroom

Frye & Chesterman, Lynchburg, Va., for ever south wing 44x84 feet; maple floor; cost, including furnishings, about \$225,000. est, including fur Previously noted.)

N. C., Fayetteville.—Stonehaven Hotel Co. incorporated with \$100,000 capital stock by J. P. Sanders, J. H. McAden and E. R. Irwin.

N. C., Hertford,—C. W. Williford, Church ad Washington Sts., will erect hotel; frame construction,

Okia., Oklahoma City.-W. II. Shellenbarger will erect two-story brick store and hotel building: cost \$10,000.

El Campo,-Holland, Buhler & Weller, Victoria, Tex., will expend \$13,000 to rect annex to hotel; 91x90 feet; two stories; ordinary construction; soundproof flooring; ordinary construction: soundproof flooring: Careys roofing, tar and gravel roofs: wire and prism glass: install 4x6-foot freight elevator, 2000 pounds capacity; plans by Hull & Preager, Victoria, Tex.; bids opened March (Recently noted.)

Tex., Houston.—Almon Cotton will erect 50x100-foot hotel; 10 stories; fireproof construction; plans not determined. (Recently poted under "Apartments.")

Tex., New Braunfels.—P. G. Henne and P. F. Sussdorf are interested in erection of pro-posed hotel; cost \$125,000 to \$150,000.

Va., Chester.—A. Lee Thaw, Richmond, 'a., purchased Chester Hotel and is reported to remodel same.

W. Va., Huntington,-Taylor & Robinso Huntington, are among contractors esti-mating on erection of proposed hotel at Sixth Ave. and 9th St.; six stories; reinforced concrete; fireproof; cost \$200,000.

MISCELLANEOUS

Ala., Mobile — Auditorium, — Mobile Com-mercial Club, Jacob D. Bloch, president, is promoting erection of auditorium; L. C. Irine, chairman of committee,

D. C., Washington—Grandstand, etc.—National Capital Horse Show, Henry T. Allen, president, organized; has plans by Meivin C. Hazen, 213 11th St. S. W., for grandstand, paddock, ring, stables, etc.; Wm. P. Eno, 1256–224 St. N. W., chairman of executive ommittee.

Fla., Pensacola-Clubho riss Company will erect clubhouse with front-age of 40 feet, to be occupied by Pensacola Yacht & Motor Boat Club.

Fla., Tampa—Clubhouse,—Centro Espanol society has plans by Fred James, Tampa, or clubhouse in West Tampa; three stories; rick and stone; cost \$65,000.

Fla., Ybor City, Ind. Sta., Tampa-Clubcouse.—Centro Espanol Society is havin dans prepared by F. J. Kennard, Tamps or clubbouse; three stories; brick an having stone; cost \$65,000.

Ky.. Lexington — Parish-house. — Christ-hurch Cathedral plans to erect parish-house. Address The Pastor, Christ Church Cathedral. (See "Churches.

Md., Elkton-Hospital.-Dr. Howard Brat-ton plans to erect annex to hospital.

Md., Hagerstown—Ciubhouse.—Hagerstown Country Club will open bids April 15 to erect clubhouse; 140x40 feet; stone; hot-water or steam heat; gas and electric lighting; cost \$25,000; plans by Mack & Koontz; George B. Wolf, probable contractor, Address pals to C. C. Easton. (Recently noted.) McWolf

Mo., Kansas City — Hospital, — Christian Church Hospital Association, J. W. Ferry, president, will erect \$200,000 building.

N. C., Hickory-Hospital,-Dr. J. H. Shu-ford will erect two-story hospital building: brick construction.

S. C., Clinton-Orphanage.-Thornwell Or-8. C., Clinton-Orphanage, Thornwell Or-phanage, Rev. J. B. Branch, superintendent, will make improvements to orphanage, in-cluding erection of additional building, to cost about \$5000, installation of sewerage cost about \$5000, institution of Sweringer and erection of superintendent's cot tage to cost about \$5000, on which construction has begun.

S. C., Greenwood-Hospital.-Hospital Association, Dr. R. B. Epting, chairman advisory board, is having plans prepared by Sayre & Baldwin, Anderson, S. C., for hos-£ \$6500 S. C., Hartsville-Armory.-E. E. Carnes

will erect two-story store and armory build

Tenn. Knoxville-Home.-East Tennes will probably Nurses' Asso nurses' home.

Tenn. Memphis-Orphanage.-St. Peter's Orphanage will erect \$20,000 industrial building and infants' home.

Tex., Fort Worth-Clubhouse.-River Cre Country Club, Morris Berney, president, will expend \$30,000 to \$40,000 to erect clubhouse; plans not determined; architect not em-ployed. (Recently noted.)

Ap

Tex., Houston—Society Building.—Jewish iterary Society contemplates erection of Literary building.

Tex., Wharton-Sanltarium.-Dr. G. L. dson is promoting erection of proposed \$16, 000 sanitarium.

Side Agricultural and Industrial Exhibit Association, 11 Law Bidg., will open bids April 10 to erect fair buildings; one 12x24 feet, 32x100 feet, 48x150 feet, 100x150 feet, 48x250 feet, and two 24x100 feet; ordinary construction; electric lightings; and 20x100 feet. tion; electric lighting; cost \$20,000 to \$25,000; plans by M. P. Andrews & Co., Petersburg at office of company as above. (Recently (Recently

Va., Petersburg — Fair Buildings. — South Side Virginia Fair, J. II. Patterson, secre-tary, 11 Law Bidg., will receive bids until 12 o'clock noon April 10 for erection of auditorium, grandstand, agricultural hall, poultry-house, cattle, sheep and swine pens, horse barns, fencing, etc., at West End Park; plans and specifications at company's office as above

Richmond-Home.-Baptist Home Aged Women is planning to erect home to replace present structure.

Va., Richmond-Home.-Baptist Home Women, Harvie St. and Grove Ave. plans to erect home to replace present struc-ture; Mrs. W. A. Harris, president board of managers.

Va., Richmond - Postoffice, Building. -Ridgway Moore will erect building, two floors of which will be leased by Government for Postal Substation A; brick construction; 40x80 feet: boiler-room, heating plant, etc. ement : \$15.000.

Va., Virginia Beach — Casino. — Norfolk Southern Railroad, F. L. Nicholson, chief engineer, Norfolk, Va., opened bids to erect casino, to contain hotel, dance hall, etc.; two stories; cost about \$30,000; Walker C struction Co., Norfolk, Va., is lowest bidd (Recently noted.)

W. Va., Huntington-Armory, - Biggs-Wilw. va., Huntington-Armory, - Diggs-wi-son Company will erect building and lease to State for armory; 80x150 feet; two stories and basement; drillroom, 12,000 square feet

11. Va., Morgantown-Fair Buildings s. Dusenbury purchased control of fair grounds, will organize company and erect additional buildings, reconstruction grandstand, etc.

RAILWAY STATIONS

Fla., Pensacola. — Louisville & Nashville Railway, W. H. Courtenay, chief engineer, Louisville, Ky., will expend \$250,000 to erect proposed depot.

Equitable Bldg., Atlanta, Ga., advises Manu facturers Record that company has no planfor freight depot. (Recent report incorrect.)

Willacoochee,—Georgia Southern & Railway, W. C. Shaw, chief engineer, Florida Railway, Macon, Ga., will rebuild station reported

Md., Cumberland.-Western Maryland Rail road, II. R. Pratt, chief engineer, Baltimore, Md., will erect depot.

Miss., Jackson.-Yazoo & Mississippi Valley Railroad, S. S. Morris, general superintend ent. Memphis, Tenn., will either erect new freight and passenger station or enlarge and improve present structures

N. C., Gastonia.-Southern Railway, D. W. Lum, chief engineer, Washington, D. C., will erect passenger station; white pressed brick; steam heat; cost about \$25,000.

Barnwell.-Atlantic Coast Line Rail road, E. B. Pleasants, chief engineer, Wil-mington, N. C., will remodel and enlarge

S. C., Barnwell.-Southern Railway, D. W. chief engineer, Washington, D. C., will passenger station.

Tex., Baird .- Texas & Pacific Railway Co. D. S. Watben, chief engineer, Dallas, Tex., awarded contract to R. H. Parker for erection of passenger station; double story with office on second floor; 60x35 feet; freighthouse attached, 70x30 feet.

Tex., Pecos.-Texas & Pacific Railway B. S. Wathen, chief engineer, Dailas, Tex., will erect combined freight and passenger station; 38x208 feet; brick and concrete.

Tex., Terrell.—Texas & Pacific Railway Co., B. S. Wathen, chief engineer, Dallas, Tex., awarded contract to T. H. Vaughn for erec-tion of freight depot; 140x30 feet; brick. (Previously noted.)

Va., Martinsville.—Danville & Western Rail-road Co., Theodore Parker, general superin-tendent, Danville, Va., is having plans pre-pared by Pettit & Cave, Herman Bldg., Dan-

ville, Va., for passenger station and um-brella sheds; Spanish style architecture; brick; tapestry brick for outside walls; red or green tile roofs

SCHOOLS

Ala., Guntersville.—City will expend to crect school. Address The Mayor.

Ark., Little Rock.—School Board will open bids April 14 to erect addition to and re-model High School building; seven-room ad dition; will convert present auditorium into classrooms, first floor into study hall; floor divided into cla assrooms will replace s fireproof construction; floor gallery; fireproof construction; certified check for \$1000; plans and specifications at office of Frank W. Gibb & Co., architects Gazette Bldg., Little Rock, or of Little Rock High School Board.

Ark., Rogers.-School Board purchased site erect school; brick a

Ark. Stuttgart.-City will have plans ared by Mitchell Seligman, Stuttgart, chool; cost \$50,000. Address The Mayor.

Ark. Tex. Texarkana.-School Board has ans by Witt & Siebert, Texarkana, for proped \$100,000 high-school building.

., Athens.—Board of Education recom-ds issuance of \$125,000 worth of bonds to erect additional schools.

Ga., Augusta.—Tabernacle Baptist Church, lev. T. C. Walker, pastor, plans to exect industrial school

Ga., White Plains.—City defeated \$7000 ond issue to erect school; T. C. Holden, (Recently noted to vote on this Mayor.

Ky., Elizabethtown.-City and county plan o creet high-school building to cost \$40,000; ddress J. L. Pilkinter, superintendent of chools. (Recently noted to vote on bend issue for this improvement.)

Coushatta.—City voted tax to creet school. Address The Mayor. \$25,000 school.

La., Forest Hill.—School Board, E. E. Gal-ligan. secretary building committee, will open bids April 17 to erect high-school building; two stories; 120x100 feet; 40 recitation i class rooms, principal's office, labora and auditorium; brick; semi-fireproo ruction; heating and lighting not de struction; cided; cost \$29,000; plans by Stevens & Nelson, 1109 Hennen Bldg., New Orleans, La.

La., Lake Charles.-Sisters of the Holy Cross purchased site and will erect convent chool to replace burned structures

La., New Orleans.-City rejected all bids erection of Fourteenth ward school and will call for new bids; W. J. Hardee, City Engineer. (John Minot, New Orleans, re-cently reported as lowest bidder at \$49,360.)

La., Rayne.-City will erect high-set ordinary als to Dr. J. D. Hunte

La., Sulphur.-Board of School Directors Lat., Suppur.—Board of School Directors of Calcasieu parish will open bids April 18 to erect high-school building; pressed brick; hot-air heat; cost \$20,000; plans by I. C. Car-ter, Lake Charles, La.; address architect. (Pagenthy Parish). Recently noted.)

Benton. - Yazoo Miss., Board, Yazoo City, Miss., will erect proposed gricultural high school.

Miss., Newton.-City will vote April 26 on \$25,000 bond issue to erect school

Miss., Seminary.-City voted prop Miss., Seminary—Cry 200 bond issue to erect school and constru water-works system. Address The Mayor.

Mo., Springfield. — State Normal School Frustees plan to erect \$65,000 annex to main building for assembly hall and gymnasium.

Raleigh.—Agricultural and Mechan-plege plans to erect Young Men's ical Coilege plans to erect Christian Association building.

N. C., Scotland Neck.—City plans to erect school building to replace burned structure; cost about \$20,000. Address The Mayor.

Okla., Beggs.—School District No. 4, O nulgee county, will open bids about May to erect 40x100-foot addition to school build ng; ordinary construction; gas lighting; cost \$5000. Address District School Commis-sioners. (Bond Issue recently noted.)

Okia., Earlsboro.—City voted \$10,000 bond ssue to erect brick school. Address The to erect brick s

Okla., Oklahoma City.-Oklahoma City College for Young Ladies, N. L. Linebaug president, plans present expenditure of \$100. (00) for reinforced concrete brick administra tion building and \$85,000 each for two or three brick semi-fireproof dormitories; Greek cross shape; three stories; 186x186x86 feet; dormitories two stories; steam heat from central heating plant; T. J. Hodnett, engi-

eer in charge; will award subcontracts; plans include total expenditure of \$1,000,00 for buildings, etc. (Recently noted.)

Okla., Perry.-Board of Education will re elve bids until 7 P. M. April 10 to er h-school building; certified check for 5 pet t. amount of bid; plans and specifications office of Van Meter & Schmitt, architects. high-school buildir 823 Insurance Bldg., Oklahoma City, Okla. First National Bank, Perry, or may be had or deposit of \$25.

S. C., Rock Hill.-Winthrop College is havng plans prepared by Hook & Rogers, Charotte, N. C., for industrial arts and sciencoulding; has \$60,000 appropriation.

Tenn., Harrogate.-Lincoln Memorial In-fitute, Dr. Hubbell, president, will erect

Tenn., Knoxville,-Knox co \$50,000 of bonds for schools; \$25,000 for paying indebtedness and \$10,000 for establishment of high schools at junction of the rivers and one at South Knoxville; M. W. Wilson, superintendent of schools.

Tenn., Nashville. — American Interchurch College for Religious and Social Workers has incorporated; president, James D. Blanton. president of Ward Seminary; vice-president. C. Savage, president of Christian Union of Nashville; recording secretary, John H. De Witt; general secretary, J. E. McCulloch. Witt; general secretary, J. E. McCulloch, president of Methodist Training School; plans to purchase site and erect buildings for college at cost of \$500,000; further details not available at present.

Tenn., Springfield.-City voted \$15,000 bond to erect addition to scho

Tex., Bridgeport.—City voted \$20,000 bond saue to erect school. Address School Board issue to erect school. Address School Board (Recently noted to vote on this issue.)

Tex., Farmersville.-City will erect three story school building; 12 or 15 rooms; or nary construction; cost \$20,000; architect n employed. Address R. S. Pike. (Recorded to have voted \$20,000 bond issue.) employed. (Recently

Tex., Harlingen.—School Board will receive bids until April 15 to erect high-school build ing : two stories : brick : also two-story fo room brick school; certified check for \$200, payable to John E. Snavley, president of School Board; plans and specifications at office of Green & Briscoe, architects, 525-529 Commercial Bank Bldg., Houston, Tex., or of resident of School Board

Tex., McGregor,-City voted \$15,000 bond issue to erect proposed high-scho Address The Mayor.

Tex., Petty.—Independent School District will vote April 29 on \$12,000 bond issue to erect brick school building; A. Collier, presi-dent board of trustees. (Previously re-Va., Danville,-School Board, J. W. Carter

chairman, will receive sealed proposals until 2.30 P. M. April 21 for erection of school building; 14 rooms and auditorium; plans and specifications can be obtained from Pet tit & Cave, architects, Herman Bldg. ville: usual rights reserved. Re

Denbeigh.-Denbeigh School District of Warwick county will vote April 10 \$5000 bond issue to erect school. Adde Address District School Truste

Va., Portsmouth-School Board has Nr., Portsmouth—school board has plains by Charles M. Robinson, 1024 Mutual Bildg., Richmond, Va., for two school buildings; hot-air heat; electric lighting; cost \$20,000 each; date of opening bids not set. Address

Va., Portsmouth.-School Board plans to erect annex to Cook-street school

Va., Suffolk. - School Board will exp \$25,000 to erect school building; hot-air he electric lighting; plans by Charles M. Robin-son, 1024 Mutual Bldg., Richmond, Va.; will open bids April 25; address architect. (Re-cently noted.)

W. Va., Alderson.—Alderson Buptist Academy will have plans May 1 for \$40,000 academic building recently noted; 40 feet by 226 feet 6 inches; ordinary construction; steam heat : James L. Montgomery, Charleston, architect; address architect. (See 'Ma

W. Va., Eckman.—Browns Creek District Board of Education, F. C. Cook, secretary, Welch, W. Va., will erect eight-room school building; brick and stone; heating and lighting not decided; architect not employed

W. Va., Kimball.—Browns Board of Education, F. C. Kimball.-Browns Creek District Cook, secretary Welch, W. Va., will erect four-room school building; heating and lighting not decided; architect not employed.

W. Va., Keystone.—Browns Creek District loard of Education, F. C. Cook, secretary, Velch, W. Va., will erect eight-room school Board of Education, F. C. Cook, secretary, Welch, W. Va., will erect eight-room school building; brick and stone; heating and lighting not decided; cost \$20,000; architect not

Va., Wellsburg.-Board of Education es issuance of \$85,000 of bonds to erect proposed school.

STORES

Ala., Boaz.-Samuel Leath will erect store

Boaz.-Williams & Bro. brick business building; site 100x53 feet Ark., Little Rock.-J. E. Skillern will erect

building. Fla., Plant City.-S. E. Mays will erect

rick business building. Fla., Plant City.—Strickland Bros. will rect brick business building.

Fla., Tampa,-A. J. Knight will erect two

and 315 feet; two stories; stores on floors; apartments above; cost \$125,000; plans by A. L. Shaw, Tampa.

Ga., Atlanta.-J. L. Bowles will erect \$3700 building.

Ga., Atlanta.-Pittman Construction Co. will erect \$3000 building.

La., Bunkie.—J. P. Briden will erect two-story brick business building.

Ga., Columbus.-James Kuttrell will erect ousiness building; three stories; brick; 40x60

a.-Alfred Lewald will erect busiess building : brick : fireproof

Mo., Kansas City,-H, G, Kaill will erect brick store building : cost \$6

N. C., Wadeshoro,-J. E. Mercer will probaldy erect brick store

Okla., Claremore.—E. Monson will erect two story building.

Okla., Hobart.—Starns Bros. are having plans prepared by William McCanse, Hippen Bldg., Hobart, for store building; three stoand basement: 50x100 feet: cost \$25.000. Okla., Oklahoma City.-E. M. Jones will

erect building to replace burned structure; (we or three stories; cost \$25,000 to \$40,000. Okla., Oklahoma City.-Bass Furniture Co., 19-23 E. Main St., will erect additional story

Okla, Oklahoma City.-W. H. Shallenlarwill erect store and hotel building; two ies; brick; cost \$10,000.

Okla., Okemah.-W. H. Dill will ere ousiness building; stone; pressed-brie

S. C., Ridgeway.—I. C. Thomas has plans by James B. Urquhart, 903 Loan and Ex-change Bank Bldg., Columbia, S. C., for store building; two stories; pressed brick; plate-glass front; tile vestibule and roof; steam heat; gas lighting.

S. C., Hartsville.-Powe & Boyd will creet

S. C. Hartsville,-E. E. Carnes will erect story store and armory building.

 Clarksville, — Drane, Manning & will erect business building; 70 feet 10
 by 100 feet 4 inches; fireproof con-Tenn. struction; plans not made.

Tenn., Dickson.—Y. W. Dodson and J. C. oster will erect business building.

Tenn., Dickson.-M. M. Taylor will erect oncrete-block business building.

Tenn., Memphis.—Hulings Realty Co. has plans by Jones & Furbinger, Memphis, for six store buildings at Huling Ave. and Main 8t.; three stories and basement; sprinkler system; heavy-duty elevators, white Wilson-corner store to be occupied by White Wilson-brew Company, and will be equipped with system; heavy-duty elevators; cost \$150,000; ctric-motor conveyors, merchandise of awarded contract at \$60,000 to Memphis, for erection of two of ructures. (Huling Realty Co. restructures. ently noted to erect this structure.)

Tenn., Memphis,-D. A. Fisher and F. N. Fisher will erect six-story business building Tex., Dallas .- M. Griffin O'Neil will erect building; two stories; fireproof; st \$18,000

Tex., Fort Worth.—Montgomery, Ward & Co., Chicago, Ill., will creet five-story building and conduct mail-order house.

Tex., Haskell.-Lee Pierson will erect bus!-

Tex., Haskell.—Lee Pierson wir erect oness building; two stories; brick; 45x100 feet.
Tex., Waco.—Waco Drug Co. will receive bids until 4 P. M. April 10 to erect four-story-and-basement brick building; plans. pecifications, etc at office of Scott & Peararchitects, Was

Va., Lynchburg.-Miss Dora Ford will erect re; slag roof; c

Va., Norfolk. - Talbot estate will erect store and office building.

Va., Richmond.-C. T. Friend will erect three-story brick store: cost \$8000.

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Va., Richmond.—Raffael Francione will erect two-front three-story brick store build-ing; combined frontage, 47 feet; depth, 126 feet; cost about \$20,000.

feet; cost about \$20,000.

Va., Portsmouth.—Henry Kirn has plans by B. F. Mitchell, Norfolk, Va., for business building; four stories; 210x70 feet; dark red brick with buff terra-cotta trimmings; six stores on lower floor from 15 to 24 feet wide; 48 offices above; two electric elevators; two fire escapes; steam heat; bids received until April 4. Contractors estimating are Jesse Johnson, C. H. Schub, Baker & Brinkley, Dear & Totty, Myers-Turpin Construction Co., Harvey Abrames, John Monk, West-Johnson, C. H. Schub, Baker & Brinkley, Dear & Totty, Myers-Turpin Construction Co., Harvey Abrames, John Monk, West-Richardson Company, Gregory & Williamson, Moore Construction Co., J. D. Anders, all of Norfolk, Va.; C. X. Moody, E. B. Wilkins, both of Portsmouth; J. W. Davis, Newport (Previously noted to erect this

Tenn Waverly -Slavden & McNabb will erect \$10,000 three-story concrete business building to be occupied by Hooper & Porch. (See "Warehouses.")

Tex., Port Arthur,-Peter Stock will erec building; two stories; brick; 25x145

Va., Manassas.-W. N. Lipscomb will retaild mercantile and office building; 30x80 feet; brick; cost \$30,000. (Recently reported

Va., Richmond.-Watkins-Cottrell Company via. Altrimona.—Warkins certeen company is not ready to announce plans for improve-ments to business building recently pur-chased; will not get possession of property until January, 1812; details not determined. (Lately noted.)

W. Va., Bluefield.—II. Hyman of Keys W. Va., will remodel building occupied by Randolph & Mittendorf.

W. Va., Charleston.-Claude Guthrie will erect business building; two stories

W. Va., Charles Town.-D. J. Heidwahl will erect business building to replace pres-

W. Va., Martinsburg.-E. F. Millard will remodel building for stores and apartments; cost \$5000.

W. Va., New Martinsville,-W. E. Wharton has purchased business building; will model and erect 40-foot wareroom; ordin construction; plans not determined.

W. Va., Williamson.-Dr. H. C. Goings is orted to erect business building

THEATERS

La., Covington,—L. P. Delcroix and V. H. Frederick will erect electric theater.

Miss., Vicksburg.—Herman Fichtenberg is having plans prepared by William A. Stan-ton, Vicksburg, Miss., for 30x142½-foot the-ater; fireproof construction; electric lighting : tile sidewalks. (Recently noted.)

Miss., Vicksburg.-Wm. A. Stanto prepared plans for proposed moving-picture theater.

Tex., Fort Worth.-W. H. Ward and assocites will erect vaudeville theater; cost about

Tex., Houston.—George M. Jenks and Clark Cox will expend \$30,000 to erect theater, etc., recently noted. (See "Miscellancous Enter-

W. Va., Bluefield.—II, Hyman of Keystone 7. Va., will erect three-story building; low er floor for theater.

WAREHOUSES

Ala., Mobile.—City has not decided upon type of construction (whether concrete or teel) for warehouses along city's wharves; 90 feet; amount available \$50,000; P. L. 1500 feet Lyons, Mayor, (Recently noted.)

Ala., Anniston.-Farmers' Union Wareh Co. will erect addition to warehouse; 100x300

Fla., Live Oak.-Middle Florida Wholesale Grocery Co. will enlarge warehouse.

Fla., Tampa.—Mallory-Clyde Steamship Co. rill erect warehouse and platform; cost \$15, will ere 000 to \$20,000; other improvements contem

Fla., Tampa.-Thomas Land Co., P. Knight, president; W. E. Thomas, secretary-treasurer, will erect warehouse for use of Tampa Hardware Co.; four or five stories; 105x105 feet : brick.

Ky., Louisville,—George L. Martin will creet warehouse for J. I. Case Machine Co.; two stories; brick; cost \$16,000.

Md., Baltimore.—Briddell Transfer Co., 34
S. Calvert St., is having plans prepared by Henry J. Tinley, 34 N. Charles St., Baltimore, for warehouse and stable at McMeeden and Rutter Sts.; brick and stone; slag roof; concrete base and foundation; cement and Concrete base and Concrete bas sheet-asphalt flooring.

N. C., Raleigh,-Job P. Wyatt & Son will erect warehouses; brick and steel; four sto-ries; 64x140 feet; fireproof; electric elevators.

N. C., Salisbury.—Rowan Farmers' Co-operative Educational Union is promoting erection of cotton warehouse.

S. C., Hartsville,-J. L. Coker & Co. will

8. C., Olanta.-J. C. Tryluck, D. E. Frank and A. J. Tomlison incorporated Olanta Warehouse Co.; will erect tobacco war.

house; frame construction; to be completed

by July 1.

8. C., Union.—Fant Bros. Company will erect warehouse; two stories; brick.

Tenn., Waverly.—Slayden & McNabb will erect warehouse in Henry's Addition; two stories; concrete; also erect \$10,000 threestory concrete business building and two-story warehouse, both to be occupied by Hooper & Porch.

Va., Petersburg.—Rodgers, McCabe & Co. will erect brick warehouse.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Md., Baltimore.—Alexander Yearley & Sons warded contract to A. K. Boteler, 1323 A. R. Boteler, 132 Mrytle Ave., Baltimore, to erect proposed apartment-house: 17x45 feet; ordinary con-struction; steam heat; cost \$4000; plans by Mottu & White, 322 N. Charles St., Balti-

ASSOCIATION AND FRATERNAL

Alexandria.—Benevolent and Pro rder of Elks awarded contract to E Elam, Pineville, La., to erect lodge building; steam heat; electric lighting; plans by Stevens & Nelson, 1109 Hennen Bldg., New Orleans, La. (Previously noted.)

N. C., Chapel Hill.-Wilkerson-Moffitt Co pany, Durham, N. C., has contract to erect proposed fraternity hall; cost \$5000.

S. C., Columbia,-J. D. Wilkins of Greens N. C., has been awarded contract for as of structural steel w ork in e ction of Young Men's Christian building; general contract (noted in January) awarded to Central Car Construction Co. of Greensbore

BANK AND OFFICE

Ala., Aliceville.-Merchants and Farmers' Bank has plans by and awarded contract to Linamood & Puckett, Columbus, Miss., for bank building; one story; 30x60 feet; gray pressed brick and sandstone; cost \$3100. (Re-cently noted.)

Lst., Bunkie. — Merchants and Planters Bank awarded contract to C. D. Stewart Bank awarded contract to C. D. Stewart. Baton Rouge, La., to enlarge and remodel bank; enameled terra-cotta front; plateglass windows.

Oakland.-Garrett National Md. Ma. Oakiand.—Garrett National Bank awarded contract at \$11,000 to Holbert & Spedden, Fairmont, W. Va., to erect proposed addition to building, and to A. D. Naylor & Co., Oakland, for plumbing.

Miss., Greenwood. - McShane Cotton Co. awarded contract to R. Jesty & Co., Winona, Miss., to erect building; two stories; 50x76 feet; electric lights; concrete sidewalks; cost \$11.590; plans by Frank R. McGevy, Greenwood.

lotte, for proposed office and store building.
N. C., Charlotte.—T. W. Wade awarded (Sec "Stores.") contract to Goode Construction Co.,

N. C., Rutherfordton.—Western Union Tele graph Co. awarded contract to K. J. Carpen ter. Rutherfordton, to erect two-story brick building.

S. C., Edgefield.-Farmers' Bank awarde contract to remodel bank building; plans by Macmurphy & Story, 18 King Bidg., Augusta, Ga. (Recently noted as having plans for this improvement.)

8. C., Manning—Home Bank & Trust Co. has plans by and awarded contract to O. W. McRoy. Manning, to erect two-story bank building: fireproof vault; stoves; electric lighting; cost \$3000.

Alexandria. - Alexandria Water Co. Va. awarded contract to Knight & Rodgers to ect office building

CHURCHES

Ga., Millen.—Millen Baptist Church awarded contract to J. D. Grandy, Charlotte, N. C., to erect edifice; pressed brick and granite; main auditorium to seat 350; Sunday-school room to seat 500; 14 classrooms; cost \$20,000; plans by Wheeler & Stern, Charlotte, N. C.

S. C., St. Matthews. — Baptist Church awarded contract to Lane & Huggins to erect editice; cost \$12,000. (Previously noted.)

Tex., Hondo.-Lutheran Church awarded contract at \$2770 to Hurt & Jones, Hondo, to erect red-brick edifice. Portsmouth.-Third Baptist Church

Tex., Victoria.-Victoria Methodist Church electric lighting; cost \$2500.

| awarded contract to J. W. Sample, Victoria,

CITY AND COUNTY

S. C., Georgetown — Fire Station. — City awarded contract to Caldwell Construction Co., Winston-Salem, N. C., to erect fire sta-tion; plans by W. W. Hamby, Columbia, S. C. (Previously noted to receive bids until

DWELLINGS

Ala., Birmingham.—E. L. Higdon awarded contract to W. A. Meaks, East Lake, Ala., to rect dwelling recently noted; 12 rooms and ment : rustic or sawed whitestone : hot water; gas and electric lighting; cost \$20,000; plans by Harry W. Jones. (See "Machinery Wanted.")

D. C., Washington,-E. A. Hayes, 2111 Ban contract to M. G. Lepley, 457 H St. N. W., Washington, to erect four dwellings at 1429, 1431, 1437 and 1439 Foxall Rd. N. W.: two stories; frame; cost \$6000

D. C., Washington,—Millard F. West, 1855 Calvert St. N. W., awarded contract to Cooper Lighthown, 519 6th St. N. W., Washington, to erect two-story frame dwelling at 3819 Kanawha St. N. W.; cost 35000; plans by J. J. Greene, Washington.

Savannah.-Dr. Julian F. Chisholm awarded contract to Sayannah (Ga.) Engineering Construction Co. to erect bungalow at Vernon View; reinforced concrete; cobblestone arches on front porch to support conerete columns; cost about \$4000.

Ga., Savannah.-Mrs. 8. Herman awarded contract to Artley & Simkins, Savannah, to erect dwelling; two stories; ordinary con-struction; hot-water heat; plans by H. W. Witcover, Savannah. (Recently noted.)

Ky., Elizabethtown. - A. S. McMurtry awarded contract to Alonzo Perry, Elizabeth town, to erect nine-room residence and livery and feed stable

and feed stable.

Md., Baltimore.—John W. Kimple awarded contract to James Watts, 617 N. Fremont St., Baltimore, to erect residence at Forest Fark; two and a half stories; frame and shingle; slate roof; concrete foundation; electric lights; hot-water heat; cost about \$4500; plans by Stanislaus Russell, 2900 Clifton Ave., Baltimore.

Md., Baltimore.—Joseph T. Lawton, 818 Leadenhall 8t., will expend \$5000 to erect residence; 49x35 feet; ordinary construction; hot-water heat; electric lighting; heating, lighting fixtures and plumbing not included in contract; general contract recently noted awarded to Willard E. Harn Company, 213 V. Calvort St. Baltimore. N. Calvert St., Baltimor

Md., Frederick.-Christian and Elmer C. Railing Railing awarded contract to Thompson & Myers, Frederick, to crect double brick dwellawarded contract ing: two stories.

Md., Linthieum Heights (not a r Md., Linthicum Heights (not a postomec). Jos. T. Kelly, Jr., 623 St. Paul St., Baltimore, Md., awarded contract to Sweetser Linthi-cum, 231 Courtland St., Baltimore, Md., to erect residence; ornamental frame; slate roof; concrete foundation; eight rooms.

N. C., Charlotte.-Jacob Thompson award N. C., Charlotte.—Jacob Thompson award-ed contract to William Beattle, Charlotte, to erect proposed dwelling; two stories; seven room; 35x46 feet; frame; slate roof; electric lighting; plans by Louis II. Asbury, Charlotte

N. C., Greenshoro, -A. Y. Bond will etwo-story frame dwelling; cost \$2500; shingle roof; hot-air heat; electric lighting; con-tract awarded to J. R. Truit, Greensboro.

N. C., Greensboro,-James T. Morehead, Jr. warded contract to Shaw Bros. to enouble tenement-house; cost \$6000.

N. C., Wilmington.-W. M. Atkinson awarded contract to Rogers & Thomas to erect two-story nine-room residence; cost \$5000.

N. C., Winston-Salem.—M. M. Murchison has plans by and awarded contract to J. E. Kenerly to erect six-room dwelling; frame;

Tex., Beeville.—A, F. Rees awarded contract to creet \$5000 residence.

Va., Berkley, Station Norfolk,-J. E. White awarded contract to Mr. Henley, No erect residence

Va., Luray,-D. I. Stover awarded contract Va., Luray.—D. I. Stover awarded contract to Heiston-Miller Company, Luray, to erect dwelling; 25x48 feet; mill construction; steam heat; electric lighting; cement side-walks; cost \$4000; plans by C. L. Proctor. (Recently noted.)

Va., Norfolk.-J. F. Kitterman awarded contract to Charles H. Lowe, Norfolk, to creet two-story frame residence; cost \$4450.

Va., Norfolk.—Harry St. George Tucker awarded contract to C. T. Holtzelaw, Hamp-ton, Va., to creet dwelling; two stories; 22x92 feet; furnace; plans by Wood, Donn & Deming, 808 17th St., Washington, D. C. (Recently noted.)

Va., Norfolk.-W. B. Farant awarded contract to R. H. Stallings, Norfolk, to erect two-story brick residence; cost \$5500.

Va., Norfolk,-W. H. Harn awarded contract to Griffin Bros., Norfolk, to erect two-story frame residence; cost \$3000.

Va., Norfolk.-Julia M. Ford awarded contract to Griffin Bros., Norfolk, to erect residence; cost \$550.

Va., Portsmouth,—Charles Syer awarded outract to S. B. Hutchins to erect two double and two single dwellings; two sto ries; cost \$5500,

Va., Roanoke.—H. E. Kennedy awarded contract to J. R. Carter, City National Bank Bidg., Roanoke, to erect residence; two stories; brick cased; slate roof; cost \$4000.

Va., Roanoke.—Mrs. E. Fairbrother awarded contract to J. R. Carter, City National Rank Bidg., Roanoke, to erect brick-cased dwelling; hot-water heat; slate roof; cement cellar; cost \$5000; construction begun.

Va., Roanoke.-Mrz. Helen Riffe awarded ntract to J. R. Carter, City National Bank dg., Roanoke, to erect residence; two Bldg., Roanoke, to erectionies; frame; cost \$3800,

GOVERNMENT AND STATE

Miss., Jackson — Hospital. — Trustees of State Charity Hospital awarded contract for crection of State Charity Hospital at \$49.815 to Reusch Construction Co., New Orleans, La., and at \$13,294 to Leuderbach Plumbing Co. of Juckson for plumbing; plans by Wheeldin & Price, Jackson, call for structure 161x177 feet; three stories; pressed brick, (Recently noted to receive bids until April L)

HOTELS

Ga., Atlanta.—J. T. Crass awarded contract to Mackle-Crawford Construction Co., At-lanta, to crect apartment hotel at Houston and Pryor Sts.; four stories and basement; slow-burning mill construction; buff with terra-cotta trimming; entrance finished in marble; corridor hall laid in Mosaic til-ing; walls finished in hardwood; bathrooms anished in white tiling and marble; electric light; elevator service; cost about \$65,090; plans by Haralson Bleckley, Atlanta. (Reently noted to erect hotel.)

N. C., Wilmington.—Oceanic Hotel Co. awarded contract to DeRosset & Simmons, Wilmington. to erect four-story tower to hotel at Wrightsville Beach and covered walkway from suburban station to hotel lobby; plans by Grosman & Mahler Architectural & Construction Co., Charlotte, (Previously noted.) (Previously noted.)

MISCELLANEOUS

Fla., Tampa—Clubhouse, — Italian Society L/Unione awarded contract to S. A. Walker, Tampa, to erect proposed clubhouse; three stories; brick; cost \$27,617.

Ky., Elizabethtown-Stable.-J. S. McMurtry awarded contract to Alonzo Perry to erect livery and feed stable, dwelling, etc. erect livery and (See "Dwellings."

Miss., Biloxi - Clubhouse. - J. T. Jon warded contract to T. J. Russell Manufa aring Co., Biloxi, to erect clubhouse for fississippi Const Country Club; two stories tinished on 4x10 pergular beams; cost \$10,080,

Mo., 8t. Louis-Monument, etc.-Louisiana Purchase Exposition Co. will award contract Furchase Exposition Co., will award contract to James Stewart & Co., 30 Church St., New York, to erect Jefferson Memorial at De Ballylere entrance to Forest Park; Bedford limestone; one wing for exposition purposes; comfort station in portion of basement; cost about \$369,900; plans by Isaac S. Taylor, Mercantile Bldg., St. Louis.

Tex., Shiner.—Wolters Bros. awarded con-tract to Charles Fuess & Son, Cuero, Tex., for erection of brick mercantile building;

48x110 feet; cost \$14,600; plans by J. Henry Yentzen, Yoakum, Tex. (Recently noted.)

RAILWAY STATIONS

La., Abita Springs,—New Orleans & Great Northern Railroad Co., N. G. Pearsall, general superintendent, Bogalusa, La., awarded contract to C. V. Quave, Covington, La., to erect depot fo replace burned structure.

SCHOOLS

Fla., Pensacola.—Convent of Perpetua! Adoration will expend \$55,000 to erect school building; 170x50 feet, exclusive of galleries; steam heat; electric lighting; plans by lowney & Denham, Mobile, Ala.; confract recently noted awarded to Jett Bros. Contracting Co., Mobile, Ala.

N. C., West Raleigh.—Agricultural and Mechanical College, D. H. Hill, president, awarded contract to J. B. Carr & Co., Atlanta, Ga., to erect building for animal industry and two wings to dormitories; fire proof and ordinary construction; heating and lighting from central plant; cost \$63, 600; plans for dormitories by H. B. C. Keller, Raleigh, N. C. (Recently noted.)

Tex., Aransas Pass.—School Board award-

Tex., Aransas Pass.—School Board awarded contract at \$18,492 to H. Brooke, Aransas Pass, to erect school; brick; fireptoof; electric lights; plans by J. D. McBride. (Recently noted as having geceived bids.)

Tex. Brookshire.—Brookshire Independent School District awarded contract to Shapley & Son, Houston, to erect two-story brick school; issued \$8000 of bonds.

school; Issued \$3000 or bonds.

Tex. Dallas.—Mission Home & Training School awarded contract to Buchaoan & Gilder, Dallas, to creet proposed mission home and training school; three stories; solid brick; cost about \$75,000; plans by C. W. Bulger & Son, Dallas.

Tex., Mission.—Mission Independent School Board awarded contract to C. L. Bock, Brownsville, Tex., to erect school building; freproof construction; cost \$12,000; plans by M. E. Tracey, Brownsville, Tex. (Recently noted.)

Tex., Pecos.—Board of School Trustees awarded contract to C. M. Youngberg, 1411 Nevada St., El Paso, Tex., to erect high-school building; \$5x80 feet; ordinary construction; low-pressure steam heat; cost \$25,000; plans by Walter L. Falvey, El Paso, Tex. (Recently noted.)

Va., Orange,—City awarded contract to erect proposed high school building; cost \$18,000.

Va., Richmond. — School Board awarded contract to J. T. Nuckols for erection of Grace Arents School on Pine St., between China and Holly Sts.; brick, concrete and steel; cost \$30,000; plans by Carneal & Johnson, Richmond. (School Board recently noted as asking \$600,000 appropriation for five white and four negro schools.)

STORES

Ark., Little Rock.—Fulk Estate awarded contract to Stanton & Collamer, Little Rock, to erect building to replace burned structure; five stories. (Previously noted to rebuild.)

D. C., Anacostia.—J. Winkler awarded contract to Julius Owens to erect store building; 18x70 feet; hot-water heat; gas lighting; cost \$3000.

D. C., Washington,—G. G. Cornwell & Son, 1412-14 Pennsylvania Ave. N. W., awarded contract to John H. Nolan, 1413 G St. N. W., Washington, to erect four-story building on II St.; cost \$75,000.

Ga., Rome.—Simpson Grocery Co. has plans by and awarded contract to J. F. Dupree & Son, Rome, to creet store building; 66x164 feet; mill construction; electric lighting; cost \$21,000. (Recently noted.)

Miss., Georgetown.—W. W. and F. B. Catching awarded contract to Burke Bros. & Fleming, Slidell, La., to erect three store buildings; 25x70 feet each; pressed brick; plate-glass front. (Recently noted to erect these structures.)

Mo., Kansas City.—Muhlenbach Estate Co., 697 Dwight Bldg., awarded contract to Wallace Love to erect store building; 50x115 feet; cost \$45,000; plans by Hoit & Cutler, Kansas City; all contracts awarded. (Recently noted.)

N. C., Charlotte.—T. W. Wade awarded contract to Goode Construction Co., Charlotte, to erect proposed store and office building; two stories and basement; 34x95 feet; ordinary construction; steel frame; brick; electric lighting; prism glass for sidewalks; cost \$10,000; plans by Louis H. Asbury, Charlotte.

N C., Gastonia.-Vernon Grier awarded

contract to erect store building; two stories; brick.

N. C., Lincolnton. — J. K. Kline awarded contract to G. W. McAlister, Lincolnton, to erect building; three stories; brick.

N. C., Winston-Salem.—Mrs. J. H. Fariss awarded contract to J. H. Fariss, Greensboro, N. C., for store building recently noted; 32x90 feet; ordinary construction; electric lighting; cost \$5000 to \$6000; plans by W. C. Northrup, Winston-Salem. (See "Machinery Wanted.")

S. C., St. Matthews.—F. J. Buyck awarded contract to Julian Biler for erection of store building; 40x70 feet; brick; cost \$5000.

S. C., Springfield.—L. M. McMinnis awarded contract to B. E. and Lloyd H. Grandy, Pickens, S. C., to erect two store buildings. (See "Machinery Wanted.")

Tex., Bryan.—J. W. Coulter awarded contract to C. E. Jenkins, Bryan, to erect additions to two store buildings on Main St.; two stories; 30 feet long.

Tex., Shiner.—Wolters Bros, awarded contract at \$14,600 to Charles Fuess & Son, Cuero, Tex., to erect store building; 48x110 feet; two stories; brick; plans by Henry Yentzen, Yon-

kum, Tex. (Recently noted as having plans prepared by Mr. Yentzen.)

Tex., Sweetwater.—Lang Aycock will expend \$22,000 to creet business building recently noted at San Angelo, Tex.; 50x115 feet: ordinary construction: prism sidewalk lights set in cement; plans by Parry & Spicer, Sweetwater; contract awarded to Moon & Myers, San Angelo, Tex. (See "Machinery Wanted.")

Va., Roanoke.—T. Carter awarded contract to J. R. Carter, City National Bank Bldg., Roanoke, to erect business building; coastruction began.

WAREHOUSES

Ala., Mobile.—J. Zimmern's Company awarded contract to S. E. Dupree & Son, Mobile, to erect grain elevator and warehouse. (See "Miscellaneous Enterprises.")

N. C., Winston-Salem,—R. J. Reynolds Tobacco Co. awarded contract to James Ocdway, Winston-Salem, for concrete work and grading for proposed storage house; 264x14) feet; other construction by company's force, in charge of Mr. Solomen. Henryetta, Okia., to Oklahoma City and thence northwest to the Kansas boundary, and finally to connect with the Missouri Pacific Railway, about 350 miles. Line will connect with the Missouri, Oklahoma & Gulf at either Henryetta or Weleetka, Okia. C. N. Haskell is president; O. D. Halsell, vice-president; J. H. Johnston, secretary and treasurer, the other directors being C. F. Colcord, A. H. Classen, E. K. Gaylord, R. A. Vose, E. D. Nims, O. P. Workman, E. F. Bisbee and George W. Risser; capital \$200,000, William Kenefick of Kansas City, president of the Missouri, Oklahoma & Gulf Railrond, is also said to be prominently interested as a member of a French syndicate which will finance the proposition.

S. C., Greenville.—Construction has begun by W. J. Oliver & Co. on the Pledmont & Northern Railroad at a point about two miles south of Belton, S. C.

Tenn., Chattanooga.—An officer of the Nashville, Chattanooga & St. Louis Railway says that the contract let to Dunnavant & Co. of Knoxville covers grading for a second track along the present main line from a point near Wauhatchie to a point near Lookout, two miles. It is through rough country.

Tenn., Elizabethton. — The Elizabethton, Milligan & Johnson City Electric Railrond Co., capital \$25,000, has been chartered to build a line from Elizabethton via Oak Grove and Milligan College to Johnson City, Tenn., about eight miles; incorporators, W. G. Payne, James H. Smith, A. B. Brannon, W. C. Burchfield, J. N. Inders and J. G. Burchfield.

Tenn., Henderson.—A member of the committee on the proposed electric railway through Chester county says that no survey has been made and no definite information can be given now. See Manufacturers Record of March 30.

Tenn., Knoxville.—The Southern Railway, it is reported. will build an extension from the Knoxville water-works to the marble quarries, about 2½ miles. W. H. Wells is chief engineer of construction at Washington, D. C.

ton, D. C.

Tenn., Middleton.—President L. S. Berg of
the New Orleans, Mobile & Chicago Railway
is quoted in a report from Mobile, Ala., as
saying that survey will begin immediately
for the contemplated extension from Middleton to Jackson, Tenn., about 40 miles.
L. W. Duffee is resident engineer at New
Albany, Miss.

Tex., Dallas.—The Southern Traction Co. is reported organized by residents of Waco, Hillsboro, Corsicana, Waxahachie, Ennis and other points to build an interurban electric railway from Dallas via Waxahachie, Hillsboro and Italy, to Waco, with a branch to Corsicana via Ennis, altogether about 135 miles. J. F. Strickland of Dallas is president, and he is quoted as saying that contract for the engineering has been let to the Fred A. Jones Company and survey will begin immediately. He is also president of the Texas Traction Co. Other officers of the new company are: Vice-presidents, Osce Goodwin of Dallas, J. E. Whiteselle of Corsicana, T. J. Cole of Waxahachie and James B. Baker of Waco; treasurer, T. A. Ferris of Waxahachie; secretary, James P. Griffin; assistant secretary, W. H. Painter; general counsel, M. B. Templeton, all of Dallas, Survey is already made between Dallas, Waxahachie and Corsicana.

Tex., San Antonio.—All subscriptions are reported made to the capital stock of the San Antonio & Mexico Construction Co., which is to build the proposed railroad from San Antonio to Brownsville, Tex., or a point near there. It amounts to \$500,000. George W. West and others are interested in the enterprise and work is expected to begin immediately.

Tex., San Benito.—Official information is that the San Benito & Rio Grande Valley Railway Co. contemplates building about 45 miles. There are 10 miles of track and about 20 more miles graded. Ties and steel rails purchased for 13 more miles of track. The work runs about 8000 yards per mile. Hidalgo Construction Co. of San Benito has entire contract. C. E. Eusminger is chief engineer. Road is not incorporated and stands in the rame of S. A. Robertson, trustee, who is also general manager. No other officers.

Tex., Belton.—The Belton Commercial Club is considering a proposition that a railway be built from Belton to Holland, about 16 miles southwest. Address The Secretary.

Tex., Fort Worth.—J. R. Hammond, representing the Stone & Webster Engineering Corporation of Boston, is reported to have begun survey for the proposed interurban electric railway from Fort Worth to Cleburne, about 30 miles. G. H. Clifford is manager of the Stone & Webster lines in Forth Worth

RAILROAD CONSTRUCTION

RATLWAYS

Ala., Birmingham.—The Louisville & Nashville Ralfrond, it is reported, contemplates building a direct line from Birmingham to Selma, Ala., about 70 miles. W. H. Courte nay is chief engineer at Louisville, Ky.

Fla., Kissimmee.—A letter received indicates that the Southern Colonization Co. is interested in the branch railroad to be built by the Florida East Coast Railway from its Lake Okeechobee line at Whitter to Bassenger, Fla., via Pine Island, Deso and St. George. F. B. Lynch is president and C. H. Armstrong chief engineer of the colonization company at Kissimmee, Fla. Line will be 34.7 miles long. Twenty-seven bridges required from 10 feet to 200 feet long and of pile bent construction.

Ga., Atlanta. — An official announcement confirms the report that the Southern Railway will make extensive improvements between Atlanta and Macon. This will include the laying of about 20 miles of passing tracks and the revision of grades. The tracks, known as lap sidings, will be about five miles apart, and each will accommodate four trains. W. H. Wells is chief engineer of construction at Washington, D. C.

Ga., Dublin.—The Georgia Midland & Gulf Railroad, says a report, will be the name of a line projected by J. H. Plummer of New York, J. R. Crandall of Midville, Ga., and J. A. Hall of Toombsboro, Ga., to extend from Athens via Milledgeville and Dublin, Ga., to the Gulf of Mexico.

Ga., Jackson.—Rumored that the Georgia Power Co. of Jackson is considering a plan to build an electric railway from Montezuma vla Oglethorpe to Miona and Reynolds, Ga.

Ga., Macon.—Reported that financing is arranged for constructing the proposed Atlanta, Griffin & Macon Electric Railway from Macon to Atlanta, about 80 miles, at a cost of about \$7.500,000. W. J. Massee of Macon is president.

Ga., Sylvester.—The Gulf Line Railway, says a dispatch, plans an extension from Bridgeboro via Camilla to Bainbridge, Ga., about 35 or 40 miles. Survey is in progress. W. J. Edwards is president at Sylvester, Ga.

La., Delhi.—A movement has been started to build the Delhi, Lake Providence & Manghum Railroad, which will open up timber land. The Delhi Business Men's League can give information. W. E. Monroe is president; W. A. Spirs, vice-president, and W. S. Buchanan, secretary.

La., New Iberla. — The New Iberla, St. Mary's & Eastern Railway Co., which proposes to build a line 52 miles long, will, it is reported, soon begin work. H. A. Genung is chief engineer.

Mo., Fristoe.—E. E. Trippe writes that the Osage, Ozark & Springfield Railway is the name of the proposed electric road, and money is subscribed for preliminary survey from Warsaw vin Fristoe to Cross Timbers. Line will eventually reach Springfield. a total of 90 miles. No date set to receive bids and organization is not completed. One bridge over the Osage River at Warsaw will be required, and several over creeks.

Mo., Shelbyville.—The Shelby Northwestern Railroad Co. is chartered to build a line 15 miles long from Shelby to a point on the north boundary of the county; capital \$225,000; incorporators, John A. Hope, Giboney Houck of Cape Girardeau, Mo.; J. H.

Byrd, John Tlapek, H. M. Houck and C. F. Houck.

Mo., St. Louis.—The Missouri Pacific Railway directors, says a dispatch, have approved \$300,000 expenditures for betterments. E. F. Mitchell is chief engineer at St. Louis, Mo. N. C. Acheville.—A standard-gauge troller

N. C., Asheville.—A standard-gauge trolley line, says S. Montgomery Smith, will be built from Asheville to Black Mountain, with third rail for narrow-gauge cars of a logging road, which will be built from Black Mountain Into timber lands, passing near summit of Mount Mitchell: total length, 41 miles. A local company is organizing.

N. C., Bolton. — The Waccamaw Lumber Co., says a letter, may extend its railroad from Makatoka toward Southport.

N. C., Canton,—The Champion Lumber Co., in which William Whitmer & Sons of Philadelphia are said to be large stockholders, is reported to have purchased the Pigeon River Kailroad and the Tennessee & North Carolina Railroad, the former being a new enterprise with its line partially built, and the latter having under way an extension that will connect with the former. J. B. Hart of Clarksburg, W. Va., is president of the Tennessee & North Carolina, and A. J. McMahon is superintendent at Newport, Tenn. R. F. Whitman, president of the Appala chian Railway, Foerlug, N. C., may give information as to new construction.

N. C., Washington.—A. M. Dumay, secretary of the Chamber of Commerce, Washington, N. C., says that 61½ miles of the Mattamuskeet Railroad have been graded from Fairfield to Belhaven, N. C., and rights of way are being secured from Belhaven to Washington, 26 miles; will soon begin grading with State convicts; route is level. President of the road is 8, S. Mann; treasurer, C. W. Davis, and chief engineer, R. Maxwell, Address A. M. Dumay as above.

N. C., Salisbury.—W. J. Oliver of Knoxville, Tenn., says a dispatch, has bought the Salisbury Street Railway, the interurban line from Salisbury to Concord and the line from Salisbury to Spencer, and will make extensive improvements. Associated with him in the deal are said to be E. G. Oates, T. A. Wright and John M. Ball. The Concord interurban is yet only a franchise. W. F. Salder is president of the Salisbury-Spencer Railway, but T. J. Jerome, T. H. Vanderford and others are also interested.

N. C., Vineland.—The Whiteville Lumber Co., says a report, is building its permanent tailroad line from Vineland to Reaves Ferry, on the Waccamaw River, about 18 miles south. It is completed to within about three miles of the river.

Okla., Jay.—W. O. Fleming of Tulsa, Okla., and Jay, Okla., represents, it is said, a company backing extensive railroad plans. Jay is on the line of a proposed Frisco cut-off from Vinita to Siloam Springs, Ark.

Okla., Miami.—M. C. Harper, general manager of the proposed Oklahoma, Kansas & Missouri Railread, is quoted as saying that arrangements have been made to extend from Hattenville to Galena and Joplin, Mo., and also to Baxter Springs and Riverton, Kans. Contracts will be let within two months between Lincolnville, Okla., and Baxter Springs. W. T. McCaskey and others of Chicago are said to be interested.

Okla., Oklahoma City.—The Oklahoma City Railway Promotion Co. is reported chartered and organized to build a steam railroad from

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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Tex., Sugar Land.—An official letter says that the Sugar Land Railway has built a line connecting it with Anchor, and it is probable that this will be further extended three or four miles to the Brownsville road soon. It is also hoped to extend to Hempstead before long, but there is nothing definite as to when this will be done.

Tex., Temple.—The Southwestern Traction (°o., capital \$165,000, is chartered to operate the electric interurban railway between Temple and Belton, besides lines in each city. Improvements may be made. Incorporators, A. F. Bentley, P. L. Downs, W. S. McGregor, W. G. Haag and W. G. Bentley.

Tex., Waco.-The Texas Central Railroad has filed an amendment to its charter to further extend the De Leon branch from tross Plains to Nolan, about 60 miles. C. Hamilton is vice-president and general manager and H. S. McCall resident engineer, both at Waco, Tex.

Tex., Weatherford.-The Chicago, Weather ford & Brazos Valley Railroad is reported to have graded from Weatherford to Pool-ville, 18 miles, on its line to Bridgeport, which is 12 or 15 miles farther.

Va., Danville.—Charter is granted in Virginia to the Durham & Danville Railroad Co., which proposes to build from Durham, N. C., to Danville, Va., as heretofore reported. Line will be 51 miles long, of which is miles will be in Virginia. Gilbert C. White of Durham is president and J. L. White of Purnam is president and J. L. Morehead secretary-treasurer, the other directors being W. F. Carr, G. C. White, Jr., Lathrop Morehead, J. F. Wiley, W. B. Guthrie, H. E. Satterfield, C. McD. Carr and Malcolm Harris.

W. Va., Elkins.-The Coal & Coke Rails it is reported, will soon resume construction of its line from Roaring Creek Junction into Elkins, on which track has been partly laid. R. H. Pembroke is chief engineer at Elkins.

W. Va., Fayetteville. -- An officer W. Va., Fayetteville.—An omeer of the Chesapeake & Ohio Railway says that he knows nothing about any proposition to build an extension along Winding Gulf, four miles, to reach the coal mines of G. W. Bair, Sr. This denies a recent report.

W. Va., Huntington.—'The Chesapeake & Ohio Railway Co., it is reported, has decided to build a link 14 miles long to connect the Cabin Creek and the Coal River branches.

W. Va., Morgantown.—An officer of the Pittsburg & Lake Eric Railroad pronounces incorrect the recent report that the company contemplates building an extension from Point Marion, Pa., to the mouth of Cheat River, and thence to connect with the Mor-gantown & Kingwood Railroad.

W. Va., Pennsboro.—The American Under-current Co. of Pittsburg, H. L. Lambert of Pennsboro, vice-president, plans to build (in an entirely new town called Lamberton, one nile from Ellenboro) an electric street railwith cars operated by the American ercurrent system.

STREET RAILWAYS

Fla., Jacksonville.—The Jacksonville Traction Co., recently chartered under the laws of Massachusetts, will, it is stated, take over the property of the Jacksonville Electric Co. and provide for new bonds to finance proposed improvements and other future betterments. There is no change of control.

N. C., Thomasville.-The Thomasville Light & Power Co., owner of the street railway is reported to have been purchased by the Southern Power Co., and improvements may be made. W. S. Lee is vice-president and chief engineer of the latter at Charlotte, N. C.

Okla., Muskogee. — The People's Electric Railway Co. is reported incorporated to build an electric railway in Muskogee; incorporators, W. M. Patterson, Samuel Spaul-ding, J. B. McDonald, W. R. Robison, T. H. Martin and J. H. Huckleberry, all of Musko-tce, and G. W. Risser of Oklahoma City.

Tenn., Memphis. — The Memphis Street Railway Co. projects a number of improve-ments to its lines, including the building of considerable new line in the way of exten-sions, loops and second tracks. T. H. Tutviler is president and general manage

cavation; 3720 linear feet concrete piling; 514 cubic yards concrete in piers, abutments and retaining walls; 767 cubic yards concrete in arches, girders, columns, beams, floor and railing; 77,600 pounds reinforcing steel in piles; 115,366 pounds reinforcing steel in su-perstructure; cast-steel hinges, 11,000 pounds; 8 lampposts; 720 yards waterproofing; 4380 8 lampposts; 720 yards waterproofing; 4380 square feet cement sidewalks; 920 square yards creosote wood paving blocks; 80 per cent. to be paid by city upon monthly estimates, balance upon completion and acceptance of work; material and work to be in accordance with plans and specifications obtainable from and on file at office of L. A. Washington, City Engineer; bids to be accompanied with certified check for \$1000, payable to E. J. Paxton, City Treasurer; proposals to be made on blanks attached to specifications; usual rights resourced. pecifications; usual rights reserved.

Broom Machinery.—E. Leach Canning Co., serryville, Ark., wants prices on broom ma-

Brush Machinery.-L. A. Mills, Box reenville, S. C., wants prices on machinery for brush factory.

Building Materials, etc.-Louis H, Asbury, te, N. C., wants prices on mantel Barrett specification roofing, ti Charlotte. grates.

Building Materials.—B. E. & Lloyd II. Grandy, Pickens, S. C., wants prices on steel beams, columns, plate glass and metal

Building Materials.-E. B. Weathers Elkton, Ky., wants prices on building riais, including electric-light fixtures. ullding mate

Building Materials, etc. - R. T. Bennett, Building Materials, etc.—R. I. Bennett, Wadesboro, N. C., wants prices on building materials, including enameled, fancy and fire brick, cement, hardwood flooring, mantels, effec rallings, metal shingles, tile, tin, iron stairways and skylights.

Building Materials.—J. H. Fariss, Greens-soro, N. C., wants prices on cement, plate class, plate prisms, roofing, copper trimnings and steel

Building Materials.—First Methodist Epis-opal Church, Rev. W. F. Pitts, pastor, Bris-ol, Tenn., wants prices on pressed brick, erra-cotta trimmings, stone columns and mposition roof.

Building Materials.—8t. James Methodist Episcopal Church. Rev. McWirter, pastor, Tarboro, N. C., wants prices on impervious face brick, granite trimmings, steel ceiling, tile, mantels and grates

Building Materials,—R. F. Beasley, editor Monroe Journal, Monroe, N. C., wants prices on building materials, including mantels, tiles, grates, slate roof, etc.

Building Materials.—II. T. Ham, 114 W. Market St., Greensboro, N. C., wants prices n building materials

Building Removal.—Bank of Renick, Falling Springs, W. Va., will receive bids on re-noval of 16x32-foot frame building to rear

Building Materials.—E. L. Higdon, Bir-mingham, Ala., wants prices (delivered) on quarter sawed oak or hardwood flooring, panel work for hall, dluing-room, material four built-in wardrobes, refrigerator china closets and stairway

Buggy Parts. - J. E. McFarland, Forest City, N. C., wants to correspond with manu-facturers of buggy parts.

can course of buggy parts.

Canal Construction.—Bids will be received by Cypremort Drainage Board until 2 P. M. April 15 for digging a canal of approximately 129,090 cubic yards. For further information apply to W. F. Giles, secretary, Adeline, La.

tine, La.

Cable.—Office of Chief Signal Officer, Captain A. S. Cowan, disbussing officer, War Department, Washington, D. C., will receive bids until April 14 for furnishing 12,000 feet paper insulated, lead covered submarine cable, type 306, specification 427-B and 36-B, drawing 166, to be furnished in 12 1000-feet lengths; reels will remain property of contractor and returned when empty; new reels tractor and returned when empty; new reels will be required; state value of each reel.

Car.—W. J. Brooks, secretary Boley Inter-urban Railway Co., Boley, Okla., wants to buy on terms) electric passenger car about 30 feet long; capacity 50 passengers; second-hand preferred.

Cars.-Charlotte Harbor & Northern Railway Co., L. M. Fouts, general manager, Boca Grande, Fla., contemplates purchasing 25 steel phosphate cars, capacity 89,000 pounds; also 25 hopper-bottom gondolas, capacity 60, 000 to 80,000 pounds.

Cars.-Pennsylvania Equipment Co. Cars.—Pennsylvania Equipment Co., 1239
West End Trust Bldg., Broad St. and S.
Penn Sq., Philadelphia, Pa., wants number
of (new) body box cars, 60,000 pounds stenciled capacity, allowing 10 per cent. overload; length 36 feet; width 8 feet 6 inches; height 8 feet; equipped with Tower M. C. B. automatic couplers, Westinghouse air brakes and hand brakes, diamond frame, arch bar, rigid trucks; also wants several modern ves-tibule passenger cars, not less than 70 feet long, and several 36-foot new body cabooses.

Cara.—Pennsylvania Equipment Co., 1209
West End Trust Bldg., Broad and S. Penu
Sq., Philadelphia, Pa., wants prices on num-ber of 80,000 pounds capacity gondola cars. with bottom dump

Case-hardening Equipment. — See "Metal-working Machinery, etc."

Castings. — Richlands Brick Corporation, Richlands, Va., wants prices on white iron

Cement Machinery.-Dr. Robert Grimsha Gresden A 16, Germany, is interested in ma-chinery for making and utilizing cement.

Cement.—Board of Public Works will re-reive bids until April 14 for 2000 tons of asphalt cement or materials from which asshaltic cement may be manufactured; this phaltic cement may be manufactured; this material is to be delivered on side track of municipal asphalt plant; bids are to be ac-companied by certined check for \$1000, guar-anteeing the successful bidder to enter con-tract; specifications for materials may be seen in office of Board of Public Works, or may be had upon application n at Kansas Mo

Clayworking Machinery.—Guy H. Crostavenswood, W. Va., wants addresses anufacturers of pottery machinery.

Cocoanut Fiber. - See "Mats."

Cold-sforage Plants.—R. A. Cooper, States-ville, N. C., wants information relative to cold-storage plants—construction, machinery,

Contractors' Tools, etc.—F. D. Harvey, 11 8, 2d St., Memphis, Tenn., wants catalogues and prices on tools, machinery, etc., for general contract work.

Cotton Machinery.—Union Cotton Bagging Corporation, Norfolk, Va., will probably be in market for picker, garnetting and mixing machinery

Crane.—Maryland Equipment & Supply o., 449 Equitable Bldg., Baltimore, Md., cants prices on Browning No. 8 locomotive rane with special drum.

Cranes.—Kanawha Engineering Co., 8981₂ Quarrier St., Charleston, W. Va., wants cat-alogues and prices on cranes. (See "Dep-ricks, etc.")

Derricks, etc.—Kanawha Eugineering Co., 808½ Quarrier St., Charleston, W. Va., wants catalogues and prices on portable derricks and cranes for wrecking and handling heavy

Desks,-R. T. Bennett, Wadesharo, N. C. wants prices on desks

Drain-tile Plant.-Box 374, Bayou Goula La., wants information on establishment of plant to manufacture vitrified drain the; cost of plant, production, machinery, etc.; the bores to be two to eight inches; plant to have average capacity of 2000 pieces in 10 hours; wood fuel; cost of racks, tracks, etc to be included in estimate.

Drainage Canal.-Board of Drainage Com premage Commissioners, W. E. Barnes, chairman, will let contract at 12 noon June 1 for digging drain-age canal and laterals in Ashley county Arkansas; about 700,000 cuble yards; full details as to requirements of bidders, with full plans and specifications of canals and laterals, can be had of W. B. de Yampert, secretary of board, Wilmot, Ark.; further in-formation may be had of R. B. Eggleston, ngineer, England, Ark.; usual rights re

Dredge Bucket, -See "Steam Shovel."

Dredge Bucket.—See "Steam Shovel."
Dredging.—Office of Constructing Quartermaster, Fort Moultrie, S. C. Scaled proposals in triplicate for dredging channel in vicinity of White Stake Light, N. W. of Sullvan's Island, S. C., will be received until II A. M. April 27; Government reserves right to reject any or all bids; blank proposals, plans and specifications furnished on application; proposals and other communications should be addressed to Constructing Quartermaster, Fort Moultrie, S. C. Quartermaster, Fort Moultrie, 8 C.

Electrical Machinery,—Q. D. Sauls, Tyler-town, Miss., wants prices on second-hand electrical machinery, including engines and

Elevator,-Bona Allen, Inc., Buford, Ga., will buy freight elevator.

Engine.—Eden Manufacturing Co., Salis-ury, Md., wants prices on 75-horse-power

Engine .- See "Brick Plant."

Engine and Boller.—Marshall Brick Plant, W. H. Fugh, general manager, Marshall, Tex., will want 150 to 200 horse-power engine

Miss., Vicksburg.-The Vicksburg Traction Co., says a report, is considering a propo-sition that it build an extension from its northern terminus on Washington St. to the National Cemetery, and later from there to Walters, W. B. Moorman is vice-president Walters. neral manager.

Va., Hampton.—The Newport News & Old Point Electic Railway, it is reported, will make repairs and improvements. W. W. & Butler is general manager at Hampton, Va.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

Air Compressors.—See "Mining Machinery."
Air Compressor.—Box 213, Newnan, Ga.,
wants air compressor; two-stage; 1000-foot
capacity to 100 pounds pressure.

John A. Johnston, E. M. Markham (acting),
Commissioners, D. C.

Boiler.—Eden Manufacturing Co., Salisbury, Md., wants prices on 75 to 100-horso-

Aluminum Specialties.—Thomas Grate Bar Co., Valdosta, Ga., wants to correspond with manufacturers of small cast aluminum specialties.

Ashestos Coverings.—Box 374, Bayou Goula La., wants addresses of manufacturers of asbestos fabric for joint wrappings, etc., in tile drain laying.

Asbestos Products.—Victor Rabe, Edmund-Haus, Catharinenstr. 4/5, Hamburg 8, Ger-many, wants to correspond with manufac-turers of asbestos products; quote prices de-livered Hamburg.

Automobile Trucks.—M. M. Biegel, 831 Per. dido St., New Orleans, La., wants to correspond with manufacturers of automobile trucks, about eight-ton capacity, to haul 60-

Barrel Material.-Calcis Lime & Stone Co. W. C. Shackelford, president, 1030 National Bank Bldg., Birmingham, Ala., wants prices on slack barrel material.

Boiler.-See "Brick Plant."

Boiler, etc.-Office of Commissioners of Dis Boiler, etc.—Office of Commissioners of District of Columbia. Sealed proposals will be received until 2 P. M. April 7 for installation of boiler and connections, complete, at Industrial Home School, Wisconsin Ave. and Observatory Lane N. W., Washington, D. C., and for installation of two 190-horse-power Economic boilers at workhouse site, Occoquan, Va. Form of proposal and necessary information may be obtained from chief clerk proposer, depositioners, Room, 427, District Room Bldg., Washington, D. C. Cuno H. Rudolph,

Boiler. -- Eden Manufacturing Co., Sallsbury, Md., wants prices on 75 to 100-horse-power return-tubular boiler, with stack.

Bollers. — J. J. Blocher, proprietor Troy Laundry and Heating Plant, Owensboro, Ky., wants two second-hand 150-horse-power tubular boilers.

Boilers.—Chatham Manufacturing Co., R. F. D. No. 3, Box 123, Savannah, Ga., wants addresses of manufacturers of Scotch ma-rine type of internally-fired boilers.

Boilers.—Q. D. Sauls, Tylertown, Miss., wants prices on second-hand boilers.

Brass, Piping, etc.—Wallace Bros., folk, Va., wants jobbers' prices on b galvanized, black pipe and pipe fittings

Brick Plant.-Marshall Brick Plant, W. II Pugh, general manager, Marshall, Tex., will want 159 to 200 horse-power engine and boiler and other machinery for new brick plant of 50,000 to 60,000 daily capacity.

Bricks.—Southern Building Material Co. Arcade Bldg., Norfolk, Va., wants prices on hollow bricks

Bridge Construction.-W. M. Martin, secre tary Chamber of Commerce, Petersburg, Va. tion of two-span steel toll wagon bridge across Appomatiox River; structure to be 250 feet long, 16 feet wide and of 12 tons capacity; approaches will be oak trestle.

Bridge Construction.—Sealed bids will be received at office of Board of Public Works, Paducah, Ky., until 10 A. M. April 17 for construction of reinforced concrete bridge, 43 feet wide, 295 feet long; 170 cubic yards ex-

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Engines.-Q. D. Sauls, Tylertown, Miss. wants prices second-hand engin

Excavating Machinery,-A. C. Jones, Box 73. Thibodaux, La., wants trench excavator for digging trenches for water pipe; gaso line driven preferred; new or second-hand.

Farm Implements,-H. P. Blount, Box 7. Harlem, Ga., wants information and prices on farm tractors, etc., for plowing, culti-vating, hauling, cutting and baling hay, etc. State terms, guarantee, time of delivery, fuel and weight.

oring.-Bank of Renick, Falling Springs, Va., wants prices on tile floor for lobby of bank.

Fleur-mill Machinery. - Memnona Flour and Grist Mills, M. Wakeman & Son, proprietors, Brock Road, Va., wants estimates on remodeling 20 to 30-barrel reel system to

Foundry Appliances. — Dr. Robert Grim-haw, Dresden A 16, Germany, is interest. shaw, Dresden A 16, Germany, is interested in "foundry appliances," including machin-ery for making soil pipe and fittings; machinery for making hollow ware and enamel-ing; also woodworking and hat-making ma-

Furniture.-John T. Hunt, 603 Walker Ave.

Gasoline Burner.—E. S. Jessup, Augusta, Ga., wants prices on gasoline burners, suit-able for peanut roasters; wants addresses of manufacturers.

Glass Tubes. — Hancock Inoculatum Co., Salem, Va., wants addresses of manufac-turers of glass tubes. (See "Mailing Cases,

Grading.-Beb Parman, City Clerk, Okla Grading—Boo Parman, City Cierk, Oscar, homa City, Okla., will receive bids until 5 P. M. April 10 for grading of Avenue C. Avenue P., Avenue E., Avenue F., Elder and Catalpa Aves., etc.; plans and specifications on file in office of City Clerk; certified check, 3 per cent, of bid.

Grates.-See "Building Materials," etc.

Grindstones.—Victor Rabe, Edmund-Haus, Catharinenstr. 4/5, Hamburg 8, Germany. wants to correspond with manufacturers of grindstones; quote prices delivered Ham-

Handle Machinery.—National Lumber & Manufacturing Co., Atoka, Okla., wants prices on handle manufacturing machinery.

Hat-making Machinery. - See "Foundry

Heating Plant.-E. B. Weathers, Sr., Elk-

Heating Plant.-Bank of Renick, Falling Springs, W. Va., wants prices on installa-tion of hot-water heating plant.

Hoists. — Albert Garren, 1317 Butler St., Easton, Pa., wants 10x12 double-drum skele ton hoists; second-hand.

Hoisting Engine.-Box 559, Cincinnati, O. wants holsting engine; 'xio or larger; single or double drum; for Florida delivery; state condition, particulars and price first letter.

Hoisting Engine,-Broad River Tie & Lum-Co., Union Mills, N. C., wants 10-horse ver second-hand hoisting engine.

Ice Machinery.—D. McKinnon, Winter Gar-en, Fla., wants addresses of manufacturers

Ice Machinery.—Thos. G. Boswell, Chase City, Va., wants prices on ice machine; capacity 5 to 10 tons; operated by steam.

Iron Castings, etc.—U. S. Engineer Office, 220 17th St. N. W., Washington, D. C. Sealed proposals for furnishing and delivering 260 tons, more or less, special iron castings and bolts will be received here until 12 M. April 25, and then publicly opened; in application; W. C. Langfitt, Colonel, Engineers, ened; infe Lieutenant

Lampposts.—Baltimore (Md.) Board of Awards will receive bids at office of J. Sewell Thomas, City Register, City Hall, until 11 A. M. April 12 for supplying ornamental rampposts to Department of Superintendent of Lamps and Lighting: bids to be in accordance with specifications on file at office of Robert J. McCuen, Superintendent of Lamps and Lighting, City Hall; certified check, \$300.

Laundry Machinery.—John T. Hunt, 603 Walker Ave., Greensboro, N. C., wants prices on laundry equipment for private use.

Lighting Plant B. T. W. pposts to Department of Superintendent

Lighting Plant.—E. L. Higdon, Birming-ham, Ala., wants prices on installation of lighting plant for \$20,000 dwelling. Lighting Fixtures.—See "Building Mate-

Lime Manufacturing.—Calcis Lime & Stone Co., W. C. Shackelford, president, 1030 Na tional Bank Bldg., Birmingham, Ala., wil want information relative to hydrating proc ess of manufacturing lime.

- J. E. Franks, 729 Candle

Pldg., Atlanta, Ga., wants light standard-gauge Mogul or 10-wheeler; 12x18 cylinders; 29 to 25 tons weight.

Locomotive.—Charlotte Harbor & Northern Railway Co., L. M. Fouts, general manager, Boca Grande, Fla., contemplates purchasing one passenger locomotive.

Locomotive Tenders.—Pennsylvania Equip-ment Co., 1299 West End Trust Bidg., Broad St. and S. Penn Sq., Philadelphia, Pa., wants to buy two slope-back standard-gauge tenders

Iron Stairway.-See "Building Materials.

Lumber.—West Kentucky Coal Co., W. H. Cunningham, manager, Paducah, Ky., wants prices on cypress, fir or yellow pine lumber for barge c enstruction.

Machine Shops.-See "Foundry Appliances." Machine Tools.—Sydnor Pump & Well Co., Richmond. Va., wants bolt-threading ma-chine, rod cutters, pipe and rod bending mahinery

Machine Tools, etc.-Mercantile & Machine Co., R. Morrison, manager, Laurel Hill, N. C., wants prices on 18x12 engine screw-cut-ting lathe; 16-inch shaper; small gear cut ter; pipe machine and pipe tools; bolt and pipe stock and dies.

Mailing Cases, etc.—Hancock Inoculatum o., Salem, Va., wants addresses of manufacturers of mailing cases (especially wood tubes) : also glass tubes.

Mats.-Ulmer Machinery Co., Tampa, Fla. vants to correspond with manufacture oanut fiber mats.

Mattress Supplies .- B. F. Gasque, Box 551. Dillon, S. C., wants addresses of manufac-turers of or dealers in mattress supplies, such as mattress tufts and twine.

Mining Machinery.-Dr. W. H. Smith, Bailey, N. C., wants prices on machinery mining phosphate rock.

Metal-working Machinery, etc. — Success Novelty Co., 618 Cary St., Richmond, Va., wants prices on second-hand stamping press; (new) lathe drills, presses, etc.; also case-hardening outfits and compounds.

Metal Ceiling.-Moon & Myers, San Angelo, Tex., wants prices on steel ceiling.

Metal Workers.-C. L. Donehue, Gads Ala., wants to correspond with manufactur curs relative to placing order for manufac-ture (on royalty basis) of patented washing machine constructed of 24x18 galvanized-iron and wooden rollers.

Milling Machinery. - See "Water-who

Mining Machinery.—Albemarle Slate Cor-poration, Geo. Blow, manager, Esmont, Va., wants prices on channelers and drills, wire saws for stone, steam and belt-driven air compressors, water-tube boilers, double drum hoists and derrick fittings

Office Furniture.-See "Building Materials,

Oil Products.-Victor Rabe, Edmund-Haus Catharinenstr. 4/5. Hamburg 8, Germany, wants to correspond with manufacturers of oll products, including paraffin. Quote prices delivered Hamburg

Paper-cone Machinery. - R. H. Crichton. umberton, N. C., wants addresses of manu-tecturers of machinery to make paper cones.

Paraffin.-See "Oil Products."

Paving .- A. C. Piason and J. F. Keyser, Paving.—A. C. Piason and J. F. Keyser, advertising committee, Williamson, W. Va., will receive bids until April 10 for grading, paving and curbing First, Third, Fourth and Fifth Aves., Pritchard, Dickinson, Harvey, Logan and Vinson Sts.; paving will amount to about 16,000 yards and curbing to about 11,000 linear feet : plans and specifications of 11,000 intear feet; plans and specincations on file in office of Recorder, City Hall, and of N. H. Manakee, City Engineer, First Na-tional Bank Bidg.; bids will be received and considered for work as whole or for paving and curbing separately; bidders to designate in bids what proportion thereof is for grad-ing and paving and what proportion for

Paving.—Board of Control, Norfolk, Va., will receive bids until 12 30 P. M. April 7 for laying cement concrete roadways on Martin's and Hall St., east of Yarmouth amount, about 1100 square yards; bids to be submitted at price per square yard; cross-section and specifications may be seen at office of W. T. Brooke, City Engineer.

Paving.-City of Grenada, Miss., asks bids on construction of 75,000 to 150,000 feet gran-olithic sidewalks according to specifications on file at office of L. B. James, City Recorder.

Paving.—W. A. Fraser, City Clerk, Green-ville, Tex., will receive bids until 3 P M. April 11 for 148,600 square yards of paving and 84,000 linear feet of concrete curb; dif-ferent kinds of paving to be selected after

bids are opened; at least 25,000 square vards will be let in each contract; bids will be received on bitulithic, vitrified brick, creo-soted wood blocks, Hassam concrete, vibro-lithic, sheet asphalt and asphaltic concrete; each bidder to deposit certified check in sum of \$1000, payable to the Mayor : specification ce of City Engineer, J. H. can be seen at office of City Engineer, J. H. Rush, or E. L. Dalton, consulting engineer, Dallas, Tex.; bidders wanting specifications sent out of city send check for \$3 to cover

Paving.—Bob Parman, City Clerk, Oklahoma City, Okla., will receive bids until 19 A. M. April 11 for construction of various sidewalks, according to plans and specifications on file in office of City Clerk; certified check, 2 per cent. of bid.

Paving.—A. W. Farris, City Clerk, Ponca Okla., will receive bids until noon April 5 for construction of three blocks of brick street paving and eight blocks of macadam, per plans and specifications on file in office City Clerk; certified check, 10 per cent.

Paving.-Proposals will be received in office of the City Clerk, Austin, Tex., until 3 P. M. April 15 for 45,700 square yards of street pavement; bids will be considered for vitrified brick, wood blocks and bitulithic pay nent; certified check for \$500 required with each bid; plans and specifications in office of City Clerk can be had by deposit of \$5; P. W. Powell, Superintendent of Streets and Public Improvements.

Pipe. - Albert Garren, 1317 Butler St. Easton, Pa., wants four and six-inch wrought ond-hand

Pipe Stock.-See "Machine Tools, etc." Plumbing .- See "Building Materials," etc.

Producer-gas Engines.-Port Lavaca Tele one Co., Port Lavaca, Tex., wants ad-esses of manufacturers of producer-gas engines and equipment.

Pumps.-O. D. Sauls, Tylertown, Miss., wants prices on pumps

Pumping Engine, etc.—Sealed proposals, en for Triple Ex rumping Engine, etc.—seated proposais, et dorsed "Proposal for Triple Expansion l'umping Engine, Bollers, etc.," addressed to Board of Awards, Baltimore, Md., will be re-ceived at office of City Register, City Hall, until 11 A. M. April 26 for furnishing, delivof Baltimore 30,000,000 gallon vertical triple-expansion pumping engine, two batteries of two boilers each, the necessary steam piping between engines and boilers and econo between engines and boilers and economizers for heating the feed water, for Mt. Royal pumping station, Baltimore, Md., according to specifications which may be obtained at office of Water Engineer. Alfred M. Quick; certified check, payable to order of Mayor, J. Barry Mahool, and City Council, for \$2900;

Rails.—W. J. Brooks, secretary Boley In-erurban Railway Co., Boley, Okla., wants o lease 1½ to 2 miles 40 or 50-pound relay-ng steel rails for six months with option to buy,

Rails.—Broad River Tie & Lumber Co., Union Mills, N. C., wants about 25 tons 25 pound relaying steel rail.

Road Improvements.—J. B. Wetherington. Clerk Circuit Court, Jasper, Fla., wants data and suggestions on road improvement.

Road Roller.-Baltimore (Md.) Board of Awards will receive bids at office of J. Sewelt Thomas, City Register, City Hall, until 11 A. M. April 12 for furnishing five-ton tandem steam road roller, delivered f. o. b. Balti-more; specifications and blank proposal sheets can be had at office of B. T. Fendall,

City Engineer, upon applicati ofing.-J. E. Curlee, Charlotte, N. C., wants prices on slate roof.

Sawmills.-I. A. Mills, Box 186, Greenville C., wants prices on complete sawmill equipments.

Seating.-R. T. Bennett, Wadesboro, N. C., wants prices on opera chairs.

Sewer Construction.—Joseph Dews, City lerk, Chickasha, Okla., will receive bids un Clerk, Chickasha, Okia., will receive bids un-til 10 A. M. April 10 for construction of lat-eral sewer No. 52 in Sewer District No. 25; also until same date for construction of lat-eral sewers in Sewer District No. 26; plans and specifications on file in office of City Clerk; each bid to be accompanied by certified check for \$50.

Sewer Construction.-City Council, Colt bla, S. C., will receive bids until noon April II for furnishing materials and construct circular concrete storm-water drain and purtenances on Gervais St., between Asse bly and Pulaski Sts., in accordance with plans and specifications on file in office of John McNeal, City Engineer; approximate total length of water drains, 2600 linear feet; sizes, 36, 42 and 48 inches inside diameter;

certified check, \$100; R. C. Keenan, Council Superintendent of Streets.

Sewer Construction.-Board of Bond Trus tees, John A. Merritt, chairman, Pensacola, Fla., will receive bids until noon May 2 for construction of storm-water drains and sanitary sewers; work consists of 15,060 linear feet of storm-water drains from 66 to 10 feet of storm-water drains from 66 to 10 inches in diameter and 23,890 linear feet of sanitary sewer from 24 to 6 inches diameter, with necessary appurtenances; bids to be accompanied by certified check for \$2000; specifications and blank proposal forms can be obtained from Board of Bond Trustees, and full sets of plans can be obtained at same office; deposit of \$10 required for each set of plans furnished; George Rommel, Jr., engineer.

Sewer Construction.—City Council, St. Petersburg, Fla., will receive bids until 7.30 I'. M. April 13 for construction of sewer system No. 13, beginning at sewer already con-structed at First St., in Seventh Alley south, and extending west in Seventh Alley south to Sixth St. south; work to be under supervision of Sanitary Committee and City gineer, and in accordance with profile, plans and specifications on file in City Engineer's office; certified check \$50; W. F. Divine, City

Sidewalk Lights .- Moon & Myers, San Angelo, Tex., want prices on sidewalk lights; also prism lights set in copper.

Signals and Panels.-Office of Chief Signal flicer, Capt. A. S. Cowan, disbursing offi Omeer, Capt. A. S. Cowal, disoursing officer, War Department, Washington, D. C., will re-ceive bids until 11.30 A. M. April 10 for fur-nishing Signal Corps with 10 signals, firling, lattery commander's specifications 499-A, drawings 326-1, 483b-1, 483c and 483d; six sigdrawings 326-1, 4830-1, 483c and 483d; s1x sig-nals, firing pit, with round gongs, specifica-tions 499a, drawings 326-1, 483a-1, 483c and 483d; also four panels, telephone power-style 3, complete, including instruments, mountings, wall supports, etc., in accordance with specifications 299-c and drawings 382a-2, 382b-2, 382d-1 and 382f.

Steam Shovel.-Maryland Equir Supply Co., 449 Equitable Bldg., Baltimore, Md., wants prices on No. 0 Thew steam shovel on traction wheels, 1½-yard clamshell dredge ucket, with sockets for poles, and one-yard Hayward class E bucket.

Steam Shovel.-Box 559, Cincinnati, O., wants shovel; gasoline yards capacity. Give fu price in first letter. engine power: Give full particulars and

Steel Barges.-U. S. Engineer Office, Kansas City, Mo. Sealed proposals for constructing and delivering steel barges will be received until 12 noon May 1, and then publicly opened; information furnished on application : Edward H. Schulz, Major, Eagi

Steel Bars.-Moon & Myers, San Angelo, ants prices on corner bars.

Tile Machinery.-Guy H. Crook, Ravensvood, W. Va., wants addresses of manufac-urers of roofing-tile machinery.

Tank.—Maryland Equipment & Supply Co. 449 Equitable Bldg., Baltimore, Md., wants prices on 25 to 35-ton standard-gauge saddle tank

Tanks.—Carolina Bagging Co., Henders F. C., wants second-hand oil tank of 5000 7500 gallons capacity; tank such as used for carrying oil on cars; do not want car.

Tractors.-See "Farm Implements.

Tile.—John T. Hunt, 603 Walker Av Greensboro, N. C., wants prices on tile i bathroom and kitchen floors and walls.

Trunk Material.-Eden Manufacturing Co Salisbury, Md., wants prices on all kinds of finishing material for trunks, including lin-ing, covering, wood strips, corner irons,

Turbines .- J. C. Houston, 50 Church St., New York, wants prices on two 500-kilowatt team turbines; second-hand.

Vault Door, etc.-Bank of Renick, Falling Springs, W. Va., wants prices on fireproof vault door and safety deposit boxes.

Water Mains.—City of Columbia, S. C., will receive bids until noon April 11 for furwill receive bids until noon April II for fur-nishing materials and constructing water mains and appurtenances on Gervals St. from Main to Huger St. in accordance with plans and specifications by F. C. Wyse, engi-neer-superintendent, and on file in his office; each bid to be accompanied by certified check for \$100; W. F. Stieglitz, Council Su-

Water-works and Equip nent.-Bids will be received until 8 o'clock May 1 by Superin-tendent of Water-Works, Sherman, Tex., on two deep wells; internal combustion engine; gas producer; air compressor; electric gen motors: switchboards and powerdriven pumps; specifications on file at of Barney C. Kreager, City Secretary.

cil

Water-works.-Constructing Quartermaster. Fort Dade, Fla., will receive bids until 10 A. M. April 29 for constructing extension to ater system. Information on application

Water-supply Equipment.—James L. Mont-gemery, Charleston, W. Va., wants prices on tank and hydraulic ram for water supply.

Water-works .-- W. B. Jones, City Clerk City Hall. Ada. Okla. will receive bids until s P. M. April 10 for furnishing pipe and ma chinery to be used in extension and improve ment of water-works; blds will be opened before City Council same evening, and bid-ders are invited to be present and to submit hids on following items: Pipe for construc-tion of approximately 66,000 linear feet of 12-inch pipe line, either of steel or cast iron: if cast iron is used, amount required will be about as follows: Class "B" pipe, 246 tons about as follows: Class "B pipe, 255 tons: Class "C" pipe, 2062 tons: Class "D" pipe, 75 tons; total, 3058 tons: If steel pipe is used 65,000 linear feet of 12-inch O. D. Converse joint pipe will be required; bids will also be joint pipe will be required; bids will also be received on 3000 linear feet of steel pipe, 3-16 inch thick and 20 inches in diameter; also on cast-iron pipe for extensions to city mains, all Class "B," approximately as follows: 12-inch pipe, 124 tons; 10-inch pipe, 124 tons; s-inch pipe, 63 tons; 10-inch pipe, 124 tons; total, 464 tons; for special castings, about 15,000 pounds; for furnishing and erecting on foundations to be prepared by city two numbing units each unit to consist of one on foundations to be prepared by city two pumping units, each unit to consist of one horizontal turbine water-wheel, direct con-

nected to multi-stage centrifugal pump, each unit to have capacity of 600 gallo ns per min ute against total head of 185 ft. Plans, specthe against total head of 189 R. Plans, spec-fications, form of contract and proposal and full information may be obtained from con-sulting engineers, Goodwin & Harper, 926 Scarritt Bidg., Kansas City, Mo.: each pro posal to be accompanied by certified check of not less than 5 per cent. of bid, made pay-able to the City Treasurer. posal to be

Water-wheels, etc.-J. S. Jones, Flat Rock wants prices on

Wire Cable.--Albert Garren, 1317 Butler St. Zaston, Pa., wants lot of 2 to 2½-inch diam Easton, Pa., wants lot of 2 t eter wire cable; second-hand.

Wire Saws .- See "Mining Machinery."

Woodworking Machinery, - See "Handle Machinery

Woodworking Machinery .- O. D. Sauls, Tylertown, Miss., wants prices on cant mill or gang saw, resaw, rip saw and planing ma

Woodworking Machinery. - See "Foundry

Wood-pulp Machinery .- D. F. Hinton, Troy Ala., wants addresses of manufacturers of pulp mills and of hog mills for grinding siabs, etc., from sawmills.

Woodworking Machinery.—Lambeth Furni-ure Co., J. W. Lambeth, manager, Thomas-ille, N. C., will receive bids April 6 for

INDUSTRIAL NEWS OF INTEREST

Wants Land for Immigration.

The Minge Mortgage & Realty Co., 2113
First Ave., Birmingham, Ala., wants to buy land suitable for immigration purposes 10,000 to 25,000 acres in the South, either cut over or Texas land, on or near railroad.

Wants Colonization Land.

A 25,000 to 30,000-acre tract of Southern cut-over land suitable for colonization is wanted by the Minge Mortgage & Realty Co. Land-owners having property of this character to dispose of are invited to address the company at 2113 First Ave., Birmingham, Ala.

Reciprocity.

The Triumph Electric Co. of Cincinnati an-rounces that R. F. Pier, formerly foreman of the transfer department of the Canadian General Electric Co., Peterboro, Ont., has severed his connection with that company to accept a similar position with the Tri-munh Electric Co. umph Electric Co

New Concrete Construction Company

The McFarland-Neff Concrete Construction Co. of Fort Worth, Tex., recently organized, has secured several contracts for immediate work, including two miles of concrete side-walk for Hyde Park Land Co., one mile for the city park board and several miles for Dr. Creager and Frank Hurley, all of Fort

Wants Branch Managers.

A Richmond corporation marketing a pro-duction in use for seven years wants man-agers who can handle subagents. It offers exclusive rights to towns, cities and counties In the Virginias, Carolinas, Tennessee and Pennsylvania. For information address the Radium Spray Office, 100 N. 7th St., Richmond. Va.

Standing Timber for Sale.

From 10,000,000 to 15,000,000 feet of standing timber on the west side of the North Meher-rin River, in Lunenburg county, Virginia, will be offered for sale at auction on April 19. This sale will be held at Kenbridge un-less a private sale is arranged before then. For information address Wattsboro, Va. 11. Wallace

Securing Enterprises for Norfolk.

Norfolk people are active in securing all kinds of business enterprises for their city. They include the firm of S. L. Nusbaum & Co., offices in Cltizens' Bank Bidg., Norfolk, who have who have just completed arrangements whereby the United Cigar Stores Co. of New whereby the United Clgar Stores Co. of New York will improve a Norfolk building for a branch store. Nushaum & Co. also recently induced Messes. Rosenstein, brokers, of Bal-timore, to locate an establishment at Nor-folk, and Harry Bothman, lessee of the Lor-raine Hotel, to locate there.

In a Humorous Vein.

F. W. Haskell, president of the Carborun oum Company, Niagara Falls, N. Y., has con-tributed in his humorous vein another not-able edition to his "Revised American States-

which has made its name heard in all countries and all ages." A copy of the booklet will be sent to anyone asking for it, and it will be sure to beguile the busiest man into a few minutes' leisure while enjoying its un-

Pauly Jail-Building Co.

D. A. Bennett, formerly City Auditor of Oklahoma City, an architect by profession, has resigned to become Texas representative of the Pauly Jail-Building Co. of St. Losis, with offices in the Flat Iron Building, Fort Worth, Tex.

C. S. & A. C. Steere.

C. S. & A. C. Steere, lumber dealers, Shreveport, La., have established a retail lumber yard in that city, and will handle all grades of lumber and material entering the construction of modern dy as roofing, mill work, paints, etc.

Additional Well Contracts.

The Hughes Specialty Well Drilling Co., 96 Ashley Ave., Charleston, S. C., writes that in addition to previous report of contracts received for drilling wells it has just been awarded a contract for a 6-inch by 200-foot to 400-foot well, depending on conditions of finding water, for Charles A. Jones at Oakley, S. C. This company has branch offices at Camden, S. C., and Plant City, Fla.

Taken Under Advisement.

The suit of the Draper Company against the Stafford Company, in which injunction and accounting are sought under patent to G. O. Draper, No. 527,04, was fully argued to the Circuit Court of the United States in Boston before Judge Aldrich on Tuesday, March 21, by W. K. Richardson for the com-plainant and W. H. Thurston for defendant. The case was taken under advisement by the

Skinner Engines in Florida.

H. Cordoza Sloan, Florida representat for the Skinner Engine Co. of Eric, I with office in Jacksonville, writes that has installed two direct connected 56-hor centativ power engines for the Government at Fort Dade, connected to General Electric alternators; also is installing a tandem compound direct-connected Skinner engine with Fort Wayne 185-kilowatt generator for the city of Lakeland, Fla.

Linseed-Oil Mill Presses.

The Buckeye Iron and Brass Works, Dayton, O., has furnished to date for Spencer Kellogg & Sons, Edgewater, N. J.; Minneap-Reliogy & Sons, Edgewater, N. J.; Minneapolis, Minn., and Buffalo, 282 presses for linseed-oil mills. The last 24-press outfit has just been shipped to the Edgewater mills, making 72 presses there, 24 for the Minneapolis mills and 186 for the Buffalo mills. The Spencer Kellogg & Sons firm is one of the largest independent crushers of flaxseed shed 12,000,000 bushels of seed during

Water-Works Pumps

les," This time it is the adventures

John Smith, who, as Mr. Haskell dered pumps for its new water-works plant

m the Buffalo Steam Pump Co. of Buffrom the Buriato Steam Pump Co. of Buriato. The pumping equipment consists of two five-inch two-stage centrifugal pumps, each having a capacity of 800,000 gallons of water per day against a head of 135 pounds. They will be driven by 75-horse-power 1700 revolutions per minute Fort Wayne motors, manufactured by the Fort Wayne Electric Works, Fort Wayne, Ind.

Big Coal Contract Awarded.

ntract for furnishing coal for the Pana ma Canal during the year has been awarded to the Pocahontas Consolidated Collieries Co. of Pocahontas, Va., and New York. It was awarded last week at the annual meet-ing of the stockholders of the Panama Raliread Co., and calls for a maximum amount of 550,000 tons of semi-bituminous coal at

Increasing Sales of Amatite Roofing.

The Barrett Manufacturing Co., 17 Battery P., New York, in calling attention to the dvantages of mineral-surface rooting, an-PL. New York, in calling attention to the advantages of mineral-surface roofing, an-neunces that the advent of "Amatite," with its practical mineral surface, has been halled with much satisfaction by ready roofing users and that the sales of this roofroofing users and that the sales of this roof-ing have been increasing rapidly. A sample of "Amatite" roofing will be sent to inter-ested persons on request to nearest branch office at New York, Chicago, Philadelphia, Boston, St. Louis, Cleveland, Pittsburg, Cincinnati, Kansas City, Minneapolis, New Or

Flexible Metal Hose.

The demand for hose through which oils and other liquids, steam and air under pressure can be handled is met by the New York Metal Hose Co., 42 Broadway, New York, with its flexible metal hose and tubing for pressures as high as 15,000 pounds per square hich. This company produces flexible-metal hose up to 12 inches internal diameter for manufacturing concerns using high-pressure steam, petroleum, gasoline, linseed oil, turpentine pentine, or for suction hose in phosphate mines, hose for sawmills, rock drills, water mines, nose for sawmills, rock drills, water and compressed air, vacuum cleaners, and all purposes where a flexible connection is desirable or necessary. This hose, in addi-tion to pressure, will stand any reasonable amount of heat and the action of oil. The U.S. Navy uses this hose for charging torpedoes for a pressure of 4000 pounds per square inch. For steam use the ends or the entire length is covered with asbestos and cotton fabric to permit handling.

Wheeling Secures \$800,000 Contract.

The extent to which Southern industrial plants are reaching for large contracts is evidenced in the announcement that the Wheeling (W. Va.) Mold & Foundry Co. has States Government. This contract from the United States Government. This contract calls for furnishing donkey engines for the Panama Canal, and that the company named re-ceived it became known last week on receipt of a telegram from a representative of the or a telegram from a representative of the company in Panama. A large portion of the engines and rails will be built at Wheeling and a portion of the contract will be sublet. The Wheeling Mold & Foundry Co. Is now at work on a \$2,500,000 contract for bolts and other materials for large gates on the canal, this contract having been sublet by the Mclintic-Marshall Construction Co. of burg

Otto Gas Engine Co.'s Developments.

Since Frank Salomon has become president of the Otto Gas Engine Works, 3221 Walnut St., Philadelphia, the entire management comes under his charge and the works and have been reorganized through omees have been reorganized throughout Results are shown in the increased manu-facturing facilities and greater output a decreased expense, enabling the tompany to make a reduction in the selling price of the make a reduction in the setting price of the cugine while retaining its high standard of excellence. This result having been obtained, President Salomon will now devote his energies to the selling organization, and in addition to the branch offices in Chicago, Boston, New York, Pittsburg, Omaha, Kansas City New York, Pittsburg, Omana, Kansas City, Minneapolis and San Francisco, agencles will be established to cover every section of the country. This, with the extensive pub-licity campaign, should result in larger sales of the well-known Otto gas engines and gas producers than they have ever pre

Value of Metal Doors in Fires.

John A. Westman, general manager of the Dahlstrom Metallic Door Co. of Jamestown, N. Y., and 239 Broadway, New York, with offices in all the principal cities, makes some interesting observations in regard to the value and importance of metallic doors and

hington Square fire in New York and the Albany Capitol fire, where metallic de and trim were not in use. Attention is called to the fact that the fire in one or two rooms of the Singer Bidg. Inst Sepand trim ember was prevented from spreading fro the fact that metallic doors, sash and trim used. He states that it is n sary to climinate the artistic phase, as these metallic fittings may be finished in imitation of hardwoods, etc. Many buildings in New York and other cities of recent construction are fitted with the Dublsteon deors and telm.

Big Hydro-Electric Generators.

The increased efficiency of power stations gained by the use of large electric genera-ting units has led to the installation of mating units has led to the installation of machines of unusual capacity in some of the great power stations. The General Electric Co. of Schenectady recently shipped to the Pennsylvania Water & Power Co., McCalls Ferry, Pa., a three-phase 10,000-kilowatt 11,000-voit water-wheel-driven alternating-current generator designed to operate at a speed of 91 revolutions per minute. It is interesting to note that the shipping weight of this generator was 700,000 pounds, and it recently the shipping weight of this generator was 700,000 pounds and it recently the shipping weight of this generator was 700,000 pounds and it recently the shipping weight of this generator was 700,000 pounds and it recently the shipping weight of this generator was 700,000 pounds and it recently the shipping weight of this generator was 700,000 pounds and it recently the shipping weight of this generator was 700,000 pounds and it was provided 15. erator was 700,000 pounds, and it required 15 large-capacity cars for its transportation, and it is 27 feet long by 10½ feet high. Three 7500-kilowatt generators of the same type, built by the General Electric Co., are now in service at the McCalls Ferry plant, and duplicate of the 10,000-kilowatt unit is re-

United States Metal Products Co.

The John W. Rapp Company and the J. F. Blanchard Company, both manufacturers of hollow-metal and metal-covered doors, windows and trim, have combined under the name of the United States Metal Products tame of the United States Metal Products Co. The factory of the John W. Rapp Com-pany, College Point, L. L. covering seven acres, will be continued under the combined management, and the main offices, 263-205 W. 19th St., New York, will be devoted to sales offices and showrooms. The factory sales offices and showrooms. The factory building is a four-story structure, 32x72 feet; ground floor devoted to storage and delivery motor truck; second floor for showroom and for executive offices; third floor for sales, estimating and advertising departments; fourth floor for engineering and drafting department. The building is a fireproof structure, equipped with vacuum cleaning apparatus. The United States Metal Products Co. has plans for the creeding of an addition Co. has plans for the erection of an addition to the Rapp plant. These plans include the erection of a shop, 250x600 feet, with saw-tooth roof; a doek 75x600 feet and an em-ployes' bathhouse 50x60 feet.

American Motor Truck Co.

One of the important commercial combina-tions in the automobile field recently effected Is the consolidation of the American Moto is the consolidation of the American Motor Truck Co. and the Lockport Stamping Co. of Lockport, N. Y., and the Findlay Motor Co. of Findlay, O. The plants of the first two named are being moved to the site of the Findlay plant, which is a large one, and additions will be made to accommodate the new plants and to allow for greatly in-creased business. The executive offices of the consolidated concerns will be at the the consolidated concerns will be at the Findley plant, and President L. E. Ewing of Findiay plant, and President L. E. Ewing of the Findiay Motor Co. will also be president of the American Motor Truck Co., but the latter company will be operated under the same name as before. The combined capital and outputs of the three companies will make a strong enterprise, which should have a large influence in the automobile and truck

Turbine-Driven Gas Blowers

The trend of modern practice in gas plants The trend of modern practice in gas plants, especially those devoted to the manufacture of water gas, is clearly shown by data tabulated for the Terry Steam Turbine Co., Hartford, Conn. This tabulation gives full particulars of a large number of recently installed Terry steam turbine gas blowers, of which 25 have been in operation long enough to give reliable results. The most prominent fact gleaned from this tabulation is the increase in blast pressure necessions. tion is the increase in blast pressure necessary to give greater output of gas apparatus. Former pressures of 12 to 16 inches of water tre now increased 17 to 24 inches. Of the 25 blower sets under consideration, the average air pressure at the blower outlet is 21 inches, and the maximum is 30 inches. Only six of these were operated at outlet pressures of less than 17 inches, while nine showed 3 inches. Another important fact is the in-crease in speeds. The gas blowers are driven at much higher speeds of revolution, so that the steam turbine which permits of direct connection is showing surprising adaptabilvalue and importance of metallic doors and ity. The speeds vary from 1550 revolutions trim in fireproof buildings, following the per minute up to 2300, the variation being

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

due to different sizes of blowers and different pressures maintained. Other advantages claimed for the steam turbine for this service are the absence of internal lubrication insuring exhaust steam free from oil, simplicity both in design and operation

Certified Public Accountants.

Suffern & Son, certified public accountants Sincern & Son, certified public accountaints 165 Broadway, New York, have established an office in Baltimore, 1001 Union Trust Bidg., with Albert M. Doty, certified public accountant, resident partner, in charge. This firm issues information pamphlets bearestablished on the different branche a of accounting ing on the different branches of accounting systems and is ready to take up the auditing of accounts, the study and analysis of busi-ness with view of "effective organization," putting into effect the simplest appropriate putting into effect the simplest appropriate system of accounts for a particular line of lusiness, systematizing and auditing mining accounts, revision of accounting methods where necessary, and, in fact, all the usual and advanced work of effective and expert accounting. The department of effective or accounting of the propriet of the most officials. anization aids in securing the most efficient ganization aids in securing the most efficient methods in manufacture and business, so combining all the factors that enter into a business as to produce the greatest results at the smallest cost. Such a study and at the smallest cost. Such a study and analysis requires special training and experi-ence and the ability to look at the work from an outside perspective, and for this reason the work is that of practical effi-ciency engineers, under which this depart-ment of effective organization has been de-veloped.

TRADE LITERATURE.

Talks About Brick Making.

The Ashland Fire Brick Co., Ashland, Ky., will issue a series of weekly illustrated talks by Savage about brick making and how to by savage about brick making and now covercome brick troubles. The first "illustrated talk" is just out, and the series will be mailed regularly to persons or firms interested in just how Ashland bricks are made.

Otis Elevator Co.'s Publication.

"The Indicator" is a monthly publication issued in the interests of the Otis Elevator Co., 17 Battery Pl., New York, with offices in all the most important cities. It coatains veral pages devoted to subjects of general several pages devoted to singlets of general interest. The March number contains a brief historical sketch of Savannah, with views of the city hall, Germania Bank Bldg. Citizens and Southern Bank, and Nationa Bank Bldg., all of which are equipped with

Address on Credit Customs.

An address by W. L. Brownell, treasurer of the Crocker-Wheeler Co. of Ampere, N. J., read before the Newark Association of Credit Men, entitled "Should Terms of Payment Be Enforced," has been published by the National Association of Credit Men, 41 Park Row New York. It deals at length with the will be read with interest in many lines

"Whitlock" Reliable Rope

The Whitlock Cordage Co., 46 South St., New York, with factory and warehouses at Jersey City, has issued a folder showing the factory and warehouses and stating the high the "Whitlock" 1111174 qualities of the "Whitlock pure manna tope and drilling cables and describing its sisal rope and lath yarn, hay and hide rope, Russia rope and marline. This company makes a specialty of transmission rope of "Whitlock" brand

J. I. Case Catalogues.

The J. I. Case Threshing Machine Co., Ra cine, Wis., has issued a general catalogue of articles manufactured and sold by it, with explanation of its "cash with order" plan. explanation of its "cash with order" plan, and prices of each item, which are given as 10 per cent, below "time prices." This cata-legue is entitled "A Money Saver for Cash With Order," and contains the usual mall-order information for the company's large riety of machinery, fittings, paints, olls.

A list of 42 special catalogues is en-sed, printed on an addressed post card.

Supplemental Advertising.

The Genuine Bangor Slate Co. of Easton, Pa., with quarries at Bangor, Pa., supplements its general advertising by booklets and pamphlets which go into detail of slate subjects and contain items of interest to both user and salesman. "Handshake" in 24 both user and salesman. "Handshake" in 24 numbers, of which No. 19 has recently been issued, contains interesting information, of which an index is published in No. 12 and No. 24 of the points covered in each particu-lar number. No. 19 contains interesting oints on the subject of "getting your price." from v his company's other booklets are "Roof cluded.

Thoughts," "Slate and Its Uses" and "Roofs

"Acme" Corrugated Metal Culverts

The Canton Culvert Co., Canton, O., has ssued a folder calling attention to its 191 Acme" corrugated-metal culvert catalogue Active corrugated-metal culvert catalogue und delivered prices. This catalogue tells of he numerous features and advantages laimed for the "Acme" (nestable) culverts, and is practically a textbook on the subject of corrugated-metal culverts. The folder is a reminder that "Acmes" are made of galvanized No-Co-Ro metal, and a post card is attached with the address of the nearest agent of the company, with order blank. attached

Hayward Orange-Peel Buckets.

The Hayward Company, 50 Church St., New York, has issued pamphlet No. 568, dealing with the Hayward orange-peel buck-ets. It contains several views of work being carried out expeditiously by the use of these buckets, and gives detail descriptions of the different types, with the work for which each is adapted. In addition to the orange-need buckets the Hayward Company handles the Hayward clamshell buckets, steam Iredges, excavators, traveling derricks, etc., and will furnish specifications, photographs and prices of buckets upon requ

The Blystone Batch Mixer.

The 1911 catalogue of the Blystone Manufacturing Co., 129 Forest St., Cambridge Springs, Pa., describes the advantages of springs, Pa., describes the advantages of the Blystone batch mixer and illustrates its construction features in detail. It states that this mixer is the result of the recog-nized necessity for a moderate-price batch mixer to meet all the requirements of the most careful and intelligent concrete work er at a minimum cost for labor. shipping weight, capacity, etc., together with letters of commendation from its use

Motor Drive for Metal Working.

"Motor Drive for Metal Working Machin-y" is the title of publication No. 4815 of the General Electric Co., Schenectady. The advantages claimed for the use of motor-driven machinery and tools of various kinds ar outlined in this booklet and reasons giver Illustrations and descriptions of lathes, dril cresses, machining tools individually driven, pertable drives, saws, shapers, slotting in chines, etc., are included, together with a planation and titles of the various moto applicable to each case. A list of the les offices of the company in this country and abroad is added for convenience in ading the nearest office

Ornamental Iron and Wire Work.

The Buckeye Wire Works, Main and 11th ts., Columbus, O., in its "Ornamental Iron Wire Works" catalogue, presents illus ons and descriptions, together with with price-lists, of its wire constructions and de signs. These include ornamental wire and iron fences, window guards, wire stal guards, trellises for vines, wrought-iron win dow guards, office railings, flat and round wire cages for banks and stores, elevator endosures and cabs, corner hay racks, etc. The company will submit estimates or preferably note net prices upon receipt of full information of requirements

Roofing Slate.

J. K. Hower, Postoffice Bidg., Slatington, Pa., manufacturer and shipper of state roof-ing materials, has published a booklet in which the advantages of state for roofing purposes are stated and comparisons made with other materials. Recommendations are made as to the proper grades of slate to use for different purposes. Mr. Hower manufac-tures various kinds of slate materials, in cluding superior blue black, sea green, unfading green, red, Virginia blue, etc., also the best quality of slate blackboards and general slate products. R. J. Kichline is sales agent, Slatington, Pa.

Good Roads and Farm Value

The Highway Improvement News for April, sublished by the Tennessee Metal Culvert 'o., Nashville, in the Interests of its "Amer-can Ingot Iron Culverts," is largely deican Ingot Iron Culverts," is largely de-voted to the subject of good roads and road building. Several addresses, extracts and items of interest regarding good roads and the increased value of farm lands along the line of improved roads are included. Views are presented of corrugated culvert that has in use for years without sign of de flection or deterioration, and one seven-foot diameter American ingot iron culvert, 20 feet long, located in Jefferson county, Geor-gia, are shown. Letters of recommendation various users of these culverts are in-

How the Race Was Won.

A publication of especial interest to people concerned in the use of automobiles and in good roads has been issued. It is entitled Souvenir of the Grand Prize Race Over the Savannah Course, Savannah, Georgia, November 11-12, 1910." This souvenir is being distributed by the Indian Refining Co. of Cincinnati, which materially assisted in effecting the record-breaking time by satisfactory oiling of the course. The publication contains interesting photograph of the course, the automobiles and their drivers, the officials, a map of the course and a complete description of how the race was run and won

Universal Portland Cement Co.

Monthly bulletin No. 82 of the Universal Portland Cement Co., Chicago, Pittsburg and Minneapolis, contains illustrations several different forms of structures in which several different forms of structures in which its cement has been used, including the reconstruction of the Washington St. tunnel under the Chicago River. A two-page description of this work is given as carried out under the direction of the board of supervising engineers, of which Bion J. Arnold is president and chief engineer. It is stated that sales of nearly half a million barrels have been made to a single realized within have been made to a single railroad within year, and the co mpany's annual output is given at 10,000,000 barrels

Marion Excavating Machinery.

The Marion Steam Shovel Co. of Marion. Ohio, entitles its bulletin No. 69 "Marion Excavating Machinery," and describes its steam, electric, traction and revolving shovels; also railroad ditchers, log loaders, ballast unloaders, elevator and dipper dredges and scraper bucket elevators. Nu-merous illustrations are presented of the machinery at work, and it is stated that the company is at all times ready to give the benefit of its quarter of a century of expe-rience to those interested in the installation of excavating machinery; also that indi-vidual catalogues covering the several products of the company are available

Contractors' Monthly Stock Lists.

The Contractors' Machinery & Supply Co. teuben and Carson Sts., Pittsburg, pub lishes a stock list each month, of convenient form for filing for future reference, with each specified article described and refer-ence number attached. This publication also gives general information in regard to the machinery for which the company is agent, also the various hoists, engines, locomotives. air compressors and other contract pumps, are compressors and other contractors' outfits sold, rented and bought, either new or second-hand. It is stated that anything in the line of contractors' supplies not listed will be promptly obtained in the most

The Bruce-Macbeth Engine Co.

The Bruce-Macbeth Engine Co. of Cleve has published a catalogue describing land has published a catalogue describing the Bruce-Macbeth gas engines for electric lighting, pumping and all general power purposes, using either artificial, natural or producer gas or gasoline. A table stating comparative fuel costs of different kinds of comparative fuel costs of different kinds of power is included, with another page on the subject of economy in manufacturing costs. The details of this engine are described, with illustrations, and full-page views of some of the largest engines of this type in operation. The company invites inquiries pertaining to gas power that the benefit of the experience of its engineering force will be necorded. be accorded.

Nothing Succeeds Like Success.

The Ambursen Hydraulic Construction Co., 88 Pearl St., Boston, and 165 Broadway, New York, presents an interesting history of the company under the title "The Succeeding of Success." The development of this company from a comparatively recent date, 1903, to its present commanding position, with a record of 60 important dams satisfactorily and eco-nomically built and large contracts on hand for the immediate future, makes this bit of contemporaneous history of more than tech-nical or local interest. It can be read with profit by everyone interested in developing business through the early stages of hopes and expectations and onto the success which "history" points out as being based of this "history" points out as being based on efficiency. The history is illustrated by 83 views of dams under construction or com-pleted, interiors of dams built on the Am-bursen reinforced concrete system, etc. The section devoted to the organization which carries out with signal success the building of the Ambursen dams is instructive and of the Ambursen dams is instructive and convincing. The work in hand for the immediate future by this company will include detached power-houses, as well as such as are practically connected with the dams; čanals and penstocks, large reclamation projects and constructive work of almost er and magnitude connected.

The highest dam built by the any character and magnitude connected with hydraulies. Ambursen company is stated at 150 feet, and the longest one 995 feet. Total value of dams built up to and including 1910 is \$4,290, 000, much of which represents the construction of dams for hydro-electric developm outh.

Directory of Portland Cement, Gypsum and Lime Manufacturers.

The 1911 edition of the "Directory of Port land Cement, Gypsum and Lime Manufactur-ers," published by the Cement Era, Chicago, contains in condensed form valuable information regarding these enterprises, and will matton regarding these enterprises, and will be found of value to those having business dealings with them. The directory is of vest-pocket size, bound in flexible leather, and contains 260 pages. A list of cement companies, which includes those in the United States and Canada, gives the plants in operation now, those being constructed and those being financed. The names of the executive officers, superintendents, chemists, address of office and works, capitalization, address of omee and works, capitalization, daily output, number and size of kilns, wet or dry process, kind of fuel used for burning and power plant capacity are given for each company. The names of officers are also included in an alphabetical list. A list of the brands of cement is also included, and following it are lists of gypsum plants and lime companies and statistics showing the annual output of cement, gypsum and lime for the past 10 years, as reported by the Government.

Robbins & Myers Electric Fans.

Several weeks ago the Manufacturers Rec ord presented two illustrations and data relative to electric fans manufactured by the Robbins & Myers Company of Springfield. O. This company offers a complete line of its "Standard" fans for direct and alternating current circuits, including ceiling fans, desk fans, oscillating fans, exhaust fans, etc. These fans are produced in va-rious styles and sizes to sult varying condirious styles and sizes to sult varying condi-tions, and for years have been meeting the demands throughout the South and other sections of this country, besides foreign coun tries. The company's new catalogue for the season of 1911 contains numerous photo-graphic views of fans, accompanied by data regarding their efficiency and the materials used in their construction, together with classifications and list prices. Users and dealers will find it to their advantage to indealers will find it to their advantage to investigate Robbins & Myers products before placing contracts for 1911.

FINANCIAL NEWS

The MANUFACTURERS RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discu of financial subjects bearing upon Southern matters

Review of the Baltimore Market.

Office MANUFACTURERS RECORD,

Baltimore, Md., April 5.
In the Baltimore stock market during the past week there was considerable activity in Scaboard stocks upon rumors that a deal was impending, and the trading witnessed some advances. The list of ome advances, exhibited sales witnessed some advances. The list of transactions exhibited sales as follows: United Railways common, 18¾; do. trust certificates, 18½; to 18¾; do. incomes, 63½ to 637½; do. funding 5s, 85¾ to 86; do. scrip, 85¾; do. 4s, 84¼ to 84; Consolidated Gas, Electric Light & Power common, 90½; do. preferred, 96; do. 4½s, 87 to 87%; Consolidated Gas 4½s, 96¼ to 96¼; Seaboard Air Line common, 22 to ed son vitn The list 10 678; Seaboard Air Line common, 22 to 23%; do. preferred, 41 to 42; Seaboard Company common, 23½ to 25½; do. second preferred, 53% to 56¼; Seaboard 4s. ond preferred, 55% to 55%; Scanboard 48, stamped, 86% to 87½; Seaboard 10-year 58, 100; do. adjustment 58, 75% to 76; Consolidated Cotton Duck preferred, 20. Mt. Vernon-Woodberry Cotton Duck 58, 73 to 73½; G.-B.-S. Brewing 48, 45½

Bank stock sold as follows: 139 to 137; Mechanics, 29; Firstional, 148; Bank of Commerce, 31

tional, 148; Bank of Commerce, 31½,
United States Fidelity & Guaranty sold
at 162 to 161½; Fidelity & Deposit, 151;
Maryland Trust preferred, 111; Maryland
Casualty 95¾, and ex-dividend 92½; Mercantile Trust, 143½; American Bonding, 79.

Other securities were traded in thus: onsolidation Coal, 100½ to 104; Fair-

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mont & Clarksburg Traction 5s, 98% to 9874; Norfolk & Portsmouth Traction 5s, 85% to 8614; Anacostia & Potomac 5s, 10014; do. guaranteed, 10234; Chicago Railway 5s, 98% to 98%; Consolidation Coal receipts, 25 per cent. paid, 26 to 28; Houston Oil Common, 7 to 714; do. preferred, 4914 to 51; Georgia, Carolina & Northern 5s, 10434 to 105; Northern Central Railway stock, 123 to 124; Fairmont Coal 5s, 974; Maryland Electric 5s, 9814 to 9834; Norfolk Railway & Light 5s, 1014; United States Steel, 7814; Western Maryland 4s, 8634; City & Suburban (Baltimore) 5s, 10536; Georgia Southern & Florida second preferred, 73; Virginia Railway & Power common, 42 to 4244; Baltimore Electric 5s, stamped, 91 to 9114; Jamison Coal & Coke, George's Creek 5s, 94; Savannah, Florida & Western 5s, 110; Suffolk & Carolina 5s, 10114; Atlantic Coast Line Consolidated 4s, 9334 to 91; Norfolk Railway & Light stock, 254; Georgia & Alabama Consolidated 5s, 105 to 10434; Baltimore Traction 5s, 10714; Coal & Iron Railway 5s, 10114 to 101; Wilmington & Weldon 5s, 1104; Charleston & Western Carolina 5s, 106; Baltimore City 314s, 1980, 9044; Milwaukee Refunding 414s, 9234; Virginia Midland 5th, 10614; Alabama Consolidated Coal & Iron Ss, 55; Atlantic Coast Line Convertible debenture 4s, 9714; to 974; Baltimore City 4s, 1955, 10314; to 974; Baltimore City 4s, 1955, 10314; do. 1954, 10314; Sullimore Refunding 415s, 9234; Virginia Midland 5th, 10614; Alabama Consolidated Coal & Iron 5s, 55; Atlantic Coast Line Convertible debenture 4s, 9714; to 974; Baltimore City 4s, 1955, 10314; do. 1954, 10314; Sullimore, Sulling & Augusta 6s, 116; Charleston Consolidated Electric 5s, 9775, to 96; Macon, Dublin & Savannah 5s, 9714; Baltimore, Sparrows Point & Chesapack, 4445, 97; West Virginia Central 6s, 975, to 96; Macon, Dublin & Savannah 5s, 97145; Baltimore, Sparrows Point & Chesapack, 4445, 97; West Virginia Central 6s, to 96; Macon, Dublin & Savannah 5s. 97½; Baltimore, Sparrows Point & Chesa-peake 4½s, 97; West Virginia Central 6s. 100¼; West Penn Traction 5s, 97.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended April 5, 1911.

Railroad Stocks. Par.	Bid. 2	Asked.
Atlantic Coast of Conn100	207	230
Charleston Consolidated 50	34	38
Fairmont & Clarks, Trac. Com. 100	35	
Georgia Sou, & Fla	30	40
Macon Railway & Light 100	85	
Maryland & Pennsylvania100		2012
Norfolk Railway & Light 25	25	4.0.0
Norfolk & Ports. Trac., new100	39	***
Seaboard Co, Common100	251	253,
Seaboard Co. 1st Pfd100	82	85
Seaboard Co. 2d Pfd100	551	
United Railways & Elec. Co 50	181	1834
Bank Stocks.		
Citizens' 10	413	14
Drovers & Mechanics'100	()-(-)	1113Q
Farmers & Merchants' 40	50	51
First National100		150
German-American100	110	120
German	1014	

Farmers & Merchants' 40	50	51
First National	148	150
German-American	110	120
German	104	
Maryland 20	26	
Merchants'		191
Bank of Baltimore		165
Bank of Commerce 15	* * *	3116
Exchange	164	165
Howard 10	1342	
Marine 30	4-1	
Mechanics'	2814	
Union	137	149
Old Town 10	13	
Second National100	195	
Western	25	4018
Trust, Fidelity and Casu-		

Trust, Fidelity and Casu-		
alty Stocks.	_	
American Bonding 25	1018	13
Baltimore Trust100	16416	
Continental Trust100	2.13	2 157
Fidelity & Deposit	150	
Maryland Trust	4.6	83
Maryland Trust Pfd100	119	112
Maryland Casualty 25		506
Mercantile Trust & Deposit 50	143	144
Union Trust		7111

U. S. Fidelity & Guaranty100		162
Miscellaneous Stocks.		
Ala, Con. Coal & Iron100		36
Ala, Con, Coal & Iron Pfd100	60	71
Con, Cotton Duck Common 50		6
Con, Cotton Duck Pfd 59	19	2114
Con. Gas. Elec. Lt. & P. Com., 100		90%
Con. Gas. Elec. Lt. & P. Pfd. 100	9516	96
Consolidation Coal	102	104%
GBS. Brewing Co100	3/4	
Mer, & Miners' Trans. Co100	4-3	So
Railroad Bonds.		
Atlantia Const 1st is	4931	9.43

Railroad Bonds.		
Atlantic Coast 1st 4s	9334	941)
Atlantic Coast Conv. Deben. 4s	97	1971
At. Coast (Conn.) 4s, Ctfs., 5-20s.	92	55
Atlantic Coast (Conn.) 5s, Ctfs	10436	
Carolina Central 4s	9115	9215
Charleston & West, Car. 5s	106	10615
Coal & Coke Railway 5s	93	96
Coal & Iron Railway 5s	101	10116
Georgia & Alabama 5s		105%
Georgia & Florida 5s	(61)	81
Georgia, Car. & North, 1st 5s	105	105%
Georgia South, & Fla. 1st 5s	106	1065 _B
Macon, Dublin & Savannah 5s	9714	98
Maryland & Pennsylvania is	8816	8916
Petersburg Class A 5s	108	
Petersburg Class B 6s	116	11616
Potomac Valley 1st 5s	105	
Raleigh & Augusta 1st 6s		117
Richmond & Danville 6s		10012
Savannah, Fla. & West, 5s	10912	11055
Seaboard Air Line 4s	8612	
Seaboard 4s, Stamped	8718	8714
Seaboard Adjustment 5s	753	76
Seaboard 10-year 5s	100	426
Seaboard & Roanoke 5s	1053	109
Seaboard & Roanoke 6s	102%	
Suffolk & Carolina 5s	101	
Virginia Midland 5th 5s	1061	10616
Virginia Midland G. M. 5s	107	
Western Maryland 4s	861;	861.

-			
١	Street Railway Bonds.		
	Anacostia & Potomac 5s	100%	101
	Anacostia & Potomac 5s, Gtd		103
	Atlanta Con. Street Railway 58	1043,	105
	Augusta Railway & Electric 5s	101	102
	Baltimore City Passenger 5s	10014	100%
	Baltimore, Sp. Pt. & C. 458	96	971
			1071
	Charleston City Railway 58		1033,
	Charleston Con. Electric 5s	95	957
	City & Suburban 5s (Balto.)	106	1061,
	City & Suburban 5s (Wash.)		103
	Fairmont & Clarksburg Trac. 58	98%	983,
	Knoxville Traction 58	105	
	Lexington Railway 1st 5s	85	
	Maryland Electric Rallways 5s	981	983
	Memphis Street Railway 58		
	Metropolitan is (Wash.)		
	Newport News & Old Pt. G. M. 58.	64	74
	Norfolk & Atlantic Term, 5g	9116	93
	Norfolk & Portsmouth Trac. is	8614	863,
	Norfolk Railway & Light 5s	991	991
	Richmond Traction 58	104	***
	United Railways 1st 4s	84	8414
	United Railways Income 48	6334	64
	United Railways Funding 5s	8576	86
		8	
	Miscellaneous Bonds.	84%	86
	Ala, Con. Coal & Iron 5s	81	7683
	Baltimore Brick 5s	9114	9115
	Baltimore Electric 5s, Stp	10816	
	Consolidated Gas 5s	9614	9614
	Consolidated Gas 412s	97	
	Consolidated Gas 415s, Cifs	8736	875
	Con. Gas, Elec. Lt. & P. 41/28	993	991
	Con. Gas. Elec. Lt. & P. Notes	92	941
	Censolidation Coal Ref. 4128	102	1023
	Consolidation Coal 1st 41gs	9734	
	Fairmont Coal 1st 5s	4514	45%
	GBS. Brewing 1st 4s		
	G. B. S. Brewing Income 5s	73	7316
	Mt. Vernon-Woodb'y Cot. Duck 5s.		93
	United Elec. Lt. & P. 4128	1700	2413

SOUTHERN COTTON-MILL STOCKS.

otations Furnished by William 8 Jenn, Broker, Spartanburg, 8, C., for Week Ending April 3.

for Week Ending Apr		A
	Bid.	ASEC
Abbeville Cotton Mills (S. C.)	80	75
Atken Mrg. Co. (S. C.)	2611	
Abbeville Cotton Mills (S. C.) Aiken Mfg. Co. (S. C.) Aiken Mfg. Co. (S. C.) American Spinning Co. (S. C.) Anderson Cotton Mills (S. C.) Anderson Cotton Mills (S. C.) Arcadla Mills (S. C.) Arkwright Cotton Mills (S. C.) Arwondale Mills (S. C.) Avondale Mills (Aia.) Belton Mills (S. C.) Brandon Mills (S. C.) Brandon Mills (S. C.) Brandon Mills (S. C.) Cannon Mfg. Co. (N. C.) Cannon Mfg. Co. (N. C.) Chadrus Cotton Mills (N. C.) Chiquola Mfg. Co. (S. C.) Clifton Mfg. Co. (S. C.) Clifton Mfg. Co. (S. C.) Courtnay Mfg. Co. (S. C.) Drallas Mfg. Co. (Ga.) Dr. Converse Co. (S. C.) Drayton Mills (S. C.) Eagle & Phenix Mills (Ga.) Eagle & Phenix Mills (Ga.) Ensley Cotton Mills (S. C.) Enspec Cotton Mills (S. C.)	160	
Anderson Cotton Mills (S. C.)		45
Anderson Cot, Mills (S. C.) Pfd		100
Arcadia Mills (S. C.)	98	
Arkwright Cotton Mills (S. C.)	99	100
Augusta Factory (Ga.)	40	
Avondale Mills (Ala.)	116	128
Belton Mills (S. C.)	130	1.38
Brandon Mills (S. C.)	95	100
Brogon Mills (S. C.)		94
Cannon Mfg. Co. (N. C.)	135	
Cabarrus Cotton Mills (N. C.)	130	137
Chadwick Mfg. Co. (N. C.) Pfd	100	
Chiquola Mfg. Co. (S. C.)		170
Clifton Mfg. Co. (S. C.)		80
Clinton Cotton Mills (S. C.)		120
Columbus Mfg. Co. (Ga.)	93	9.6
Courtnay Mfg. Co. (8, C.)		100
Dallas Mfg Co. (Ala.)	99	
Darlington Mfg Co (S.C.)		86
D F Converse Co (S C)		58
Denvion Mills (S C)	95	100
Eagle & Phonix Mills (Ca.)	117	
Engley Cotton Mills (S. C.)	165	177
Engros Mer Co. (S. C.)	50	5.5
Enorge Mrs. Co. (S. C.) Pfd	96	100
Drayton Mills (8, C.). Eagle & Phenix Mills (Ga.). Easley Cotton Mills (8, C.). Enorce Mfg, Co. (8, C.). Exposition Cotton Mills (Ga.). Gaffney Mfg, Co. (8, C.). Galnesville Cotton Mills (Ga.). Glenwood Cotton Mills (8, C.). Gluck Mills (8, C.).	65	4.5
Exposition Cotton Mills (Go.)	COCO	200
Cafford Mer Co (S C)	67	75
Calmardle Catton Milla (Ca.)	72	187
Clampard Catton Mills (S. C.)	1.00	156
Glenwood Cotton Mins 18, C	102	106
Gluck Mills (S. C.)	35	45
Granby Cot. Mills (8, C.) 18t Fig.	2.50	
Graniteville Mig, Co. (8, C.)	140	147
Greenwood Cotton Mills (S. C.)	57	
Grendel Mills (S. C.)	90	103
Hartsville Cotton Mill (S. C.)	160	177
Henrietta Mills (N. C.)	160	175
Inman Mills (S. C.)	100	108
calnesy Mig. Galneswille Cotton Mills (Ga.). Glenwood Cotton Mills (S. C.). Glenk Mills (S. C.). Granby Cot. Mills (S. C.) 1st Pfd. Graniteville Mfg. Co. (S. C.) 1st Pfd. Graniteville Mfg. Co. (S. C.). Greenwood Cotton Mills (S. C.). Greenwood Cotton Mills (S. C.). Hartsville Cotton Mills (S. C.). Hartsville Cotton Mills (S. C.). King Mfg. Co. J. P. (Ga.). Lancaster Cott Mills (S. C.). Lancaster Cott Mills (S. C.). Lancaster Cott Mills (S. C.). Lancaster Mills (S. C.). Lancaster Mills (S. C.). Lancaster Mills (S. C.). Lancaster Mills (S. C.). Laurens Mills (S. C.). Laurens Mills (S. C.). Lockhart Mills (S. C.). Myrllsoro Cotton Mills (S. C.).	80	85
Lancaster Cotton Mills (S. C.)	130	
Lancaster Cot. Mills (S. C.) Pfd.	97	100
Langly Mfg. Co. (S. C.)	141.7	112
Laurens Mills (S. C.)	127	
Limestone Mills (S. C.)	100	160
Lockhart Mills (S. C.)		638
Lockhart Mills (S. C.) Pfd	98	100
Leray Cotton Mills (N. C.) Pfd. Merlboro Cotton Mills (S. C.) Mills Mfg. Co. (S. C.) Mollohon Mfg. Co. (S. C.) Monaghan Mills (S. C.) Monarch Cotton Mills (S. C.) Newberry Cotton Mills (S. C.) Ninety-Six Cotton Mills (S. C.)	95	97
Marlboro Cotton Mills (S. C.)		260
Mills Mfg, Co. (8, C.)		102
Mollohon Mfg. Co. (S. C.)	95	105
Monaghan Mille (S. C.)	100	
Monarch Cotton Mills (S. C.)	105	
Newberry Cotton Mills (8, C.)	125	138
Ninety-Six Cotton Mills (S. C.)	130	150
Ninety-Six Cotton Mills (S. C.). Norris Cotton Mills (S. C.). Olympia Cotton Mills (S. C.). Orr Cotton Mills (S. C.). Pacolet Mfg. Co. (S. C.) Pacolet Mfg. Co. (S. C.) Pelzer Mfg. Co. (S. C.) Piedwont Mfg. Co. (S. C.) Piedwont Mfg. Co. (S. C.). Piedwont Mfg. Co. (S. C.). Saxon Mills (S. C.). Sibley Mfg. Co. (Ga.). Sonrian Mills (S. C.).	121	120
Olympia Cotton Mil's (S. C.)	90	
Orr Cotton Mills (S. C.)	95	
Pacolet Mfg. Co. (S. C.)		96
Pacolet Mfg. Co. (S. C.) Pfd	95	100
Pelzer Mfg. Co. (S. C.)		169
Pledmont Mfg. Co. (S. C.)	175	177 125
Poe Mfg. Co., F. W. (S. C.)	110	125
Saxon Mills (S. C.)	130	
Sibley Mfg Co. (Ga.)	65	68
Spartan Mills (S. C.)	125	133
Trion Mfg Co (Ga.)		1:30
Tucanan Mills (S. C.)	310	350
Union-Buffalo (S. C.) 1st Pfd	74	80
Union-Buffalo (S. C.) 2d Pfd		16
Victor Mfg. Co. (8, C.)	115	120
Warren Mfg. Co. (8, C.)	90)	95
Warren Mfg. Co. (S. C.) Pfd	100	105
Washington Mills (Va.)	28	
Washington Mills (Va.) Pfd	1410	110
Whitney Mfg Co. (S. C.)	110	
Wiscossett Mills (N C)		135
Woodruff Cotton Mills (S.C.)	110	118
Suarian Mills (8, C.) Trion Mfg. Co. (Ga.) Trion Mfg. Co. (Ga.) Trion Mfg. Co. (Ga.) Trion-Buffalo (8, C.) 1st Pfd. Trion-Buffalo (8, C.) 2d Pfd. Victor Mfg. Co. (8, C.) Warren Mfg. Co. (8, C.) Warren Mfg. Co. (8, C.) Washington Mills (Va.) Washington Mills (Va.) Washington Mills (Va.) Wiseassett Mills (N. C.) Woodruff Cotton Mills (8, C.) Woodside Cotton Mills (8, C.) Watts Mills (8, C.)	95	100
Watts Mills (S. C.)	80	90
Watts Mills (S. C.)	120	125
		2017

FINANCIAL CORPORATIONS.

Ark., Conway. - The First National Bank of Conway is reported approved; capital \$25. 600; organizers, J. F. Jones, J. H. Stubbs, F. U. Halter, W. W. Rivers, J. W. Jones and F. Van Deren.

Ark., Lepanto,-Official: The Bank Virginia Midland G. M. 58. 107
Western Maryland 48. 8644, 8642
West Virginia Central 1st 68. 1004, 10042
Wilmington & Weldon 58. 11048 11034
W. C. Dawson, vice-president; W. R. Payne,

cashier; directors, J. T. Lee, W. C. Dawson, T. W. Roberson, Geo. Nichals, S. F. Savage, Geo. Keen and J. M. Coppage.

Fla., Clearwater.-The People's Bank, cap ital \$36,000, is reported organized with L. B. ital \$36,000, is reported organized with L. B. Skinner of Dunedin, president; M. W. Ulmer of Largo, vice-president; J. M. Barco of Largo, cashier; directors, T. C. Tallaferro, chairman; John S. Taylor, Lowe Emmerson, M. W. Ulmer, J. W. Matchett, L. B. Skinner, J. P. Hardee, Hugh Somerville and D. C. McMuller

Fla., Fernandina.—The Citizens' National Bank of Fernandina is reported approved; capital \$50,000; organizers, J. R. Hill, S. A. Wain, W. B. Bogart and L. A. Wye.

Fla., Hawthorne.—Official: The Hawthorne State Bank chartered; capital, \$15,000; Incor-porators, A. L. Webb, P. O'Brien, W. C. Mahin, J. J. Haymans, R. H. Smith, Busfss is to begin about April 10.

Fla., Key West .- Official: The State Cas ualty Co., capital \$50,000, organized with Geo, Allen, president; W. Hunt Harris, sec-retary, and Wm. R. Porter, treasurer.

Fin., Tampa.—P. L. Weeks of Enville, Fia. and associates will, according to press dis-patches, establish a national bank.

Ga., Dawson.—Official: The American National Bank of Dawson has applied for a charter; capital, \$100,000; M. C. Edwards, president; S. D. Bowman, first vice-president and cashler; M. J. Cruger, second vice-president, and T. W. Martin, assistant cashier. Business is to begin about the middle of Mar. May

May.

Ga., Dublin.—The Exchange Bank of Dublin, capital \$25,000, is reported to have made application for a charter; organizers, J. M. Page, E. D. White, T. H. Black, R. D. Flynt, J. S. Adams, Shewmake-Hall Company, J. O. Barnes, A. P. Hilton and J. H. Lord. Business is expected to begin about July 1.

Ga., Smyrna.—Official: Bank of Smyrna chartered; capital \$25,000; P. M. Rice, prest dent; Geo. E. Knott, vice-president; Clarence James, cashier; P. M. Rice, Geo. E. Knott, Loring Brown, Dr. W. T. Pace, J. J. Thomas and B. F. Walker. Business began March 20.

Ga., Milner.-The Farmers' Bank, capital Ga., Milner.—The Farmers Bank, capitas 25,000, is reported organized with L. O. Ben-ton of Monticello, president; Dr. J. M. Bar-ron, vice-president; J. C. Baird, J. C. Mar-tin, S. J. Childress, W. W. Duke, J. T. Biles, B. F. Cook, P. H. Ethridge, W. A. Harper, Oscar W Duke and J. T. Willis. Business is expected to begin in about 60 days.

Ky., Dover.—The Equitable Trust Co. apital \$15,000, is reported organized by J. T. folton, Frank Collins, W. J. Adams and A.

Ky., Louisville,—The Central National Life Insurance Co. is reported being organized with a capital and surplus of \$1,000,000. W. H. Gregory is said to be the principal pro-

Lat. New Orleans.-The Louisiana National Life Insurance Co. is reported being organ-ized by Charles Godehaux of the Whitney Central Bank, Charles Janvier of the Canal-Louisiana Bank, Gustave Lemie, John H. Fulton and Louis P. Rice.

La., New Orleans .- The Pan-American Life La., New Orleans.—The Pan-American Life Insurance Co. is reported to have filed appli-cation for a charter and elected directors thus: President, C. H. Ellis: vice-presidents, 8. Locke Breaux, W. B. Thompson and A. Dumser; secretary, James L. Wright; treas-urer, P. M. Lamberton; counsel, Eugene J. McGivney; Lynn H. Dinkins, J. B. Sinnott, Frank Dameron and H. C. Schreiber. The company will have an authorized capital of \$1,000,000, with \$750,000 surplus.

Miss., Biloxi.—Official: The Biloxi Build-ing and Loan Association will be incorpo-rated with \$100,000 capital; directors, W. K. rated with \$100,000 capital; directors, W. K.
M. Dukate, president; Julius Cahn, vicepresident; J. E. D'Alemberte, secretary; P.
Yurgersen, treasurer; F. F. Dunbar, Joseph
Combel, A. H. D'Alemberte, E. Glennan and
L. D. Byrd. Business is to begin April 15.

Mo., Marshfield.—The First National Bank is reported approved; capital \$25,000; organizers, N. M. Barley, Marshfield; J. L. Jackson, C. T. Childress, A. S. Orein, J. A. Humphrey and others.

N. C., Plymouth.-The Bank of Washington County is reported chartered; authorized capital \$59,000; incorporators, Wheeler Martin of Williamson, J. G. Staton and others. authorized

tin of Williamson, J. G. Staton and others.

Okla., Collinsville,—Official: First National
Bank incorporated; capital, \$25,000; surplus,
\$7500; J. M. Colburn, president; N. O. Colburn, vice-president; G. L. Hicks, cashier;
directors, J. M. Colburn, N. O. Colburn, E.
Ilens, L. L. Hicks and R. E. Sutton, all ef
Collinsville. Business began March 24. This
is a conversion from the Oklahoma State
Bank

is reported approved; capital \$30,000; J. M. Armfield, president; J. M. Callaway, vice-president; W. O. Callaway, cashier, and J. McCurley, assistant cashier.

Okia., Cordell.—The State National Bank, capital \$30,000, is reported chartered; organ-izers, H. L. Rowley, president; G. F. Ames, vice-president; I. L. Hull, cashier, and J. A. Taylor, assistant cashier.

Okla., Delaware. — Reported chartered: Citizens' State Bank of Delaware; capital, \$15,000; directors, J. E. Campbell, P. 8. Powell and E. B. Lawson, all of Nowata.

Okla., Lahoma.—Reported chartered: First National Bank; capital \$25,000; L. A. Ferrel, president; Herman Muecke, vice-president; F. L. Godfrey, cashier, and M. P. Ferrel, assistant cashier.

Okla., Lawton.—Official: The Lawton Na-tional Bank, which succeeds the Lawton State Bank, is chartered with \$100,000 capi-State Bank, is chartered with \$100,000 capital. Business began March 23 with A. B. Punlap, president; N. T. Gilbert, active vice-president; P. T. Benbow, vice-president; Frank A. Kelch, cashler; Lee K. Madden and E. E. Cones, assistant enshiers. Directors, A. B. Dunlap, N. T. Gilbert, Frank A. Kelch, P. T. Benbow and G. A. Horton.

Okla., Muldrow.—Reported chartered: The First National Bank; capital \$25,000; R. W. Hines, president; L. C. Moore, vice-presi-dent, and Chas. Blackard, cashier.

Okla., Miami.—The Ottawa Abstract & Loan Co., capital \$5000, is reported organized with directors thus: A. Scott Thompson, E. H. Doyle, Mary A. Doyle and Elsie Thomp-son, all of Miami.

Okla., Nowata.—W. A. Davis, president, vrites that the Commercial National Bank is conversion from a State bank.

Okla., Oklahoma City.—The National Bond & Mortgage Co. of Oklahoma City is reported incorporated; capital \$100,000; directors, Clifton Ratliff, W. R. Ramsey and C. H. Everett, all of Oklahoma City,

Okla., Okmulgee.—A trust company is re-ported being organized by T. A. Johnson of the First National Bank of Morris; S. F. Shumaker of Chicago and Judge McCrory of Muskogee

Okla., Sallisaw.—The Farmers' National Bank, capital \$25,000, is reported approved; A. B. Dunlap, president; R. W. Hines, vice-president and cashier, and S. O. Turner, as-

Okla., Sayre.—Reported chartered: The Beckham County National Bank; capital \$25,000; H. A. Russell, president; J. A. Farls, vice-president; O. M. Marsh, cashier, and W. E. Simmonds, assistant cashier.

Okla., Skiatook.—The First National Bank of Skiatook, capital \$25,000, is reported organ-ized with C. H. Cleveland, president; W. C. Rogers, vice-president, and C. M. Jeneway.

Okla., Stilwell.—The First National Bank of Stilwell is reported chartered; capital \$25,000; officers, B. Dunlap, president; R. W. Hines, vice-president, and J. T. Magruder,

Okla., Temple.-Official: The Temple National Bank chartered; capital, \$25,000; in-corporators, A. B. Dunlan and N. T. Gl-lert, Lawton; B. H. Graves, C. A. Jemison and W. T. Adair, Temple, Okla. Business began March 25.

began March 25.
Okla., Wapanucka.—The Oklahoma State
Bank of Wapanucka is reported chartered;
capital \$25,000; directors, E. O. Loomis,
James B. Farris, J. G. March, S. O. Barnes
and E. T. Bradley of Wapanucka; William M. Dunn and M. A. Buntz of Olney

M. Dunn and M. A. Buntz of Olivey.

8. C., Blacksburg.—The People's Bank of Blacksburg is reported to have begun business; capital \$10,000. Dr. W. Ernest Anderson is president; T. M. Caldwell, vice-president, and H. P. Drew, cashler; directors, W. E. Anderson, Chas. Baber, J. F. Belue, H. P. Drew, T. M. and James M. Caldwell.

8. C., Charleston, "Official: The Citizens' Lank of Charleston, 265 King St., chartered; capital, \$100,000. Rusiness will begin April to with A. W. Litschgl, president; John P. LeVaux, vice-president, and C. R. I. Brown,

cashier.
S. C., Greenville,—Official: The Greenville Life Underwriters' Association has organized with officers thus: President, J. F. Mitchell; first vice-president, G. H. Ligon; second vice-president, W. E. Holbrook: secretary and treasurer, J. Rutledge McGhee; executive committee, M. L. Donaldson, C. B. Flesher and W. A. Merritt, The purpose of the association is to cultivate closer relations beciation is to cultivate closer relations between the representatives of life companies doing business in Greenville.

Collinsville. Business began March 74. This is a conversion from the Oklahoma State Bank.

Okla., Cordell.—The Cordell National Bank

Okla., Cordell.—The Cordell National Bank

S. C., Smoaks.—Official: The Bank of Smoaks has made application for a charter. W. H. Varn and others interested.

Tenn. Memphis.—The Memphis State Bank & Trust Co. is reported to have made application for a charter; capital \$25,000; incorporators, J. S. McTighe, W. J. Smith, Theodore Read, R. P. Haberling, L. Horn and H. Horn.

Tenn., Maury City.—Official: The Planters' Bank chartered: capital, \$10,000; incorporators, J. D. Riddick and J. B. E. Zell of Maury City; J. F. Peal, Alamo; R. L. Eason and J. H. Eason of Chestnut Bluff. Business is to begin September 1 or sooner.

Tex., El Paso.—Official: Union Bank & Trust Co, incorporated: capital \$150,090. Business is to begin May I with directors thus: E. Maye, president: Hy Pfaff, vice-president; A. J. Schutz, cashier; M. Maye, secretary; A. Schwartz, T. M. Wingo and H. Brondhy.

Tex., Fort Worth.—Official: The Reynolds Mortgage Co. chartered; capital, 3100,000; i.E. T. Ambler, president; R. B. Bishop, vicepresident and general manager; W. D. Reynolds, vice-president; C. T. Burns, treasurer, and J. S. Manning, secretary. Business has begun.

Tex., Ganado.—First National Bank of Ganado has applied for charter with \$25,000 capital: incorporators. J. E. Harmon of Ganado, E. H. Koch, C. W. McCollister, A. Casper and George T. Everett.

Tex., Houston.—The Tinker Bank & Trust Co. of Houston, capital \$200,000, is reported incorporated by H. N. Tinker, Roy B. Nichols, F. B. Wilkes, Ed S. Phelps and John W. McGuire.

Tex., Lockney.—The Lockney State Bank is reported chartered; capital, \$10,000; Incorporators, E. P. Thompson, W. T. Wright, Ed. Reeves and others.

Tex., Meridian.—The Farmers' Guaranty State Bank, capital \$10,000, is reported incorporated by H. C. Hughes, W. E. Sheppard, N. M. Hightower and others,

Tex., North Zulch.—Official: The Farmers' Guaranty State Bank chartered: capital \$10,-000. Business is expected to begin in about 20 days.

Tex., Pittsburg.—Reported chartered; First Guaranty State Bank of Pittsburg; capital, \$35,000; incorporators, S. R. Greer, Philip Polinski, W. A. Smith and others.

Tex., Swan.—Official. The First State Bank chartered; capital \$10,000. Busin-ss began March 21 with Mark Wheeler, president; E. H. Wood, F. C. Powell and Dr. H. H. Wisdom, vice-presidents, and Bruce Wheeler, cashier.

Tex., Waco.—Official: The Lumbermen's Loan & Security Co. is to be chartered with \$500,000 capital. W. W. Cameron and others interested. Business is to begin about August I.

Tex., Wichita Falls.—Official: The Wichita Southern Life Insurance Co. chartered; authorized capital, \$300,090; authorized surplus, \$200,000. Business is to begin about April 1 with J. A. Kemp president, E. P. Greenwood vice-president and general manager, E. B. Pate secretary, A. B. Huff assistant secretary and W. M. McGregor treasurer. Business is to begin about April 1.

W. Va., Bluefield. — The Dollar Savings Bank is reported chartered; capital \$25,000; incorporators, J. Lee Harne, W. C. Given, B. W. Dobins, Gamble C. Dick and Eula Jennings Harne of Bluefield.

W. Va., Keyser.—Reported chartered: The Farmers and Merchants' Bank of Keyser; authorized capital \$50,000; incorporators, Richard Gerstell, R. A. Welch, W. C. Long, W. I. Knott, H. G. Wilson, all of Keyser, W. Ya.

W. Va., Warwoo I.—The Bank of Warwood, recently incorporated and chartered with \$25,000 capital, has elected directors thus: August Wasmuth, Howard McDonald, Alfred Paull, Edward Elliott, Henry Kercher, William Stinger, John Lassch, J. W. Weller and H. F. Kenamond. It is expected to begin business about May I.

W. Va., Winding Gulf.—The Winding Gulf Bank, Incorporated with \$25,000 capital, is re ported to have elected directors thus: President, John Faulkner of Glen Jean; vice-president, A. M. Hevndon of Winding Gulf; cashler, L. N. Frantz of Mullens; John Faulkner, A. M. Herndon, L. N. Frantz, W. E. Deegans, John Laing, J. W. Wilson and P. M. Snyder.

NEW SECURITIES.

Ala., Decatur.—Official: John B. Winkley, Birmingham, Ala., purchased at par \$25,000 of 5 per cent. 30-year city-hall bonds; denomination \$590; dated April 1, 1911. H. A. Skeggs is Mayor.

Ala., Greenville.—Reported voted: \$15,000 of bonds to pay interest on indebtedness and to improve water-works.

Ala., Mobile.—Reported that it is proposed to hold an election to vote on \$600,000 of drainage and sewer bonds.

Ark., Arkadelphia.—William R. Compton company, St. Louis, is reported to have been awarded \$35,000 of 6 per cent, bonds of Sewer District No. 1.

Ark., Texarkana.—Reported that \$70,000 to \$80,000 of 5 per cent, school district bonds will soon be offered for sale.

Ark., Wilmot.—The Board of Commissioners will at noon on June 1 offer at public auction \$29,000 of bonds of Drainage District No. 1, Ashley county. W. E. Barnes is chairman of the board and W. B. de Yampert secretary.

Fla., Palm Beach.—Reported that the election to vote on municipal bonds has been postponed until May 2. The following bonds will be voted on: Sewer system, \$16,000; streets, \$12,000; city dock and seawall, \$32,000; total, \$60,000.

Fla., Pensacola.—The question of holding an election in Escambia county to vote on road and bridge bonds is reported under consideration.

Fla., Pensacola.—Press dispatches statthat the question of holding an election to vote on jall, road, bridge and other bonds is under consideration in Escambia county.

Fla., St. Petersburg.—May 9, it is reported, an election is to be held to vote on \$35,000 of 5 per cent. 30-year bonds for purchasing water-front property and for placing crosswalks in city.

Ga., Ashburn.—A bill is reported to hav been introduced in the City Council asking that an election be held to vote on \$15,000 of bonds.

Ga., Athens.—Official: The Board of Education has recommended the issuing of bonds for building additional school buildings. Press reports give the amount as \$125,000.

Ga., Barnesville.—April 18, it is reported, an election is to be held to vote on \$35,000 of Gordon Institute improvement and \$15,000 of water, light and sewer bonds.

Ga., Carnesville.—Reported that an election to vote on \$50,000 of Franklin county road bonds is under consideration.

Ga., Fairburn.-Water and light bonds are reported to have been sold at above par.

Ga., Gordon.—An ordinance is to be introduced in the City Council, it is reported, providing for an election to vote on \$45,000 of bonds.

Ga., Manchester.—Official; John W. Dickey, Augusta, Ga., purchased March 28 the \$10,000 of 5 per cent. 20-year school building bonds voted November 22, 1910; denomination \$1000; dated January 1, 1911; maturity January 1, 1931. James S. Peters is Clerk and Treasurer.

Ga., Roberta.—Reported that the question of holding an election to vote on \$5000 of school-building bonds is under consideration

Ga., Summerville, P. O. Augusta.—Reported voted: Street, sewer and water-works bonds. Ga.. Thomaston.—Reported that on May 1 an election will be held to vote on \$45,000 of

an election will be held to vote on \$45,000 of 5 per cent. 20-year water-works and sewerage bonds.

Ky., Hyden.—Bids will be received at any

Ky., Hyden.—Bids will be received at any time for \$3500 of 6 per cent. 10-20-year school building bonds; denomination \$500; dated October 1, 1910; maturity October 1, 1930. H. M. Brock is secretary and treasurer Board of Education.

Ky., Lexington.—An official letter says no bond issue contemplated at this time. Jas. J. O'Brien is secretary to Mayor.

Ky., Shelbyville.—An official letter says that nothing is in shape Just at present regarding proposed besue of improvement bonds.

La. Hammond. — Press dispatches state that \$100,000 of improvement bonds will probably soon be voted on.

La., Lake Charles.—Reported that \$125,000 of 5 per cent. 4)-year sewerage bonds are being offered at private sale.

La., Tallulah.—Official: Bids will be opened April 30 for \$15,000 of 5 per cent, 5-20-year school district building bonds: denomination \$1000. Address C. M. Hughes, superintendent of schools.

Md., Easton.—Official: Bids will be received until 4 P. M. April 15 for \$40,000 of 4 per cent. 1-40-year sanitary sewer bonds; denomination \$1000; dated March 1, 1911. Address John S. McDanlel, Town Clerk, and Martin M. Higgins, Mayor.

Md., Hagerstown.-Official: Voted March

27, \$50,990 of 4 per cent. 10-year park bonds. Address City Treasurer.

Miss., Iuka.—The question of holding bond election in Tishomingo county is reported under consideration.

Miss., Meridian. — Official: Bids will be opened on April 14 for \$190,000 of school and \$75,000 of city ball 4½ per cent. 30-year bonds; denomination \$1000; dated July 1, 1911. Address C. W. O'Leary, City Clerk; J. W. Farker is Mayor.

Miss., Newton.—Reported sold: \$11,000 of electric-light-plant bonds.

Miss., Seminary.—Reported voted: \$19,0% of school-building and water-works system

Mo., Sedalia.—Reported voted: \$60,000 to improve Liberty Park, a suburb.

N. C., Murphy.—Official: Blds will be received until May 1 for \$50,000 of 5 per cent.
30-year road bonds. Address Highway Commission of Murphy Township, Cherokee county, North Carolina.

N. C., Oxford.—Official: \$20,000 of 5 per cent, school-building bonds are to be issued. Address J. P. Stedman, treasurer of Board of Graded School Trustees.

N. C., Tarboro.—May 1, it is reported, an election is to be held to vote on \$25,000 of water-works improvement and \$25,000 of street-paying 5 per cent. 35-40-year bonds.

N. C., Sanford.—Legislature is reported to have passed a bill authorizing an election in Lee county to vote on \$100,000 of 5 per cent. toad bonds.

N. C., Thomasville,—Official: Bids will be opened April 20 by W. O. Burgin, Mayor, for \$75,000 of 5 per cent. 30-year water and sewer bonds: denomination \$1000; dated April 1, 1911; maturity April 1, 1941.

N. C., Franklinton.—Bids will be received until noon April 28 for \$39,000 of 5½ per cent. Franklin township road bonds; dated May 1, 1911: maturity May 1, 1941. Address B. T. Green, secretary of road trustees.

N. C., Whitevilie.—F. M. Stafford & Co. of Chattanooga are reported to have been awarded at 103.55 and accrued interest \$10,000 of 6 per cent. 20-year street-improvement bonds. W. E. McDaniel is City Clerk.

N. C., Winston-Salem.—Press dispatches state that W. S. Glenn of Spartanburg, S. C., representing O. B. Leach & Co. of New York City, was awarded the \$100,000 of city refunding bonds as follows: \$55,000 at 4½ percent, interest, at par, and \$45,000 at 5 percent, with a premium of \$85.

Okla., Earlsboro,—Reported voted: \$10,000 of school-building bonds.

Okia., Hominy.—The O'Neil Construction Co. of Oklahoma City is reported to have been awarded at par \$36,500 of 6 per cent. 19-25-year water and sewer bonds; denomination \$500.

Okla., McAlester.—An election is to be held, it is reported, to vote on \$150,000 of bonds to build an additional dam and con-

olonds to offind an admittodal qualitative struct water-pipe line.

Okla., Oklahoma City.—Official letter confirms report that A. J. McMahan purchaset the \$400,000 of water-works, sewer and hospital bonds.

Okla., Oklahoma City.—Official: Bids will be opened on April 25 for \$75,000 of series 1 to 10, inclusive, and \$125,000 of series 11 to 28, inclusive, 5 per cent. bonds issued against the Public Building Fund. Leo Meyer is State Auditor.

the Public Building Fund.

State Auditor.
Okla., Tahlequah.—Official: Election held April 4 to vote on \$6000 of 5 per cent, 25-year fire-station and jail bonds; denomination \$100. Bonds will be purchased by sinking fund.

Okla., Tahlequah.—Official: Election April 4 to vote on \$6000 of 5 per cent. 25-year firestation and jail bonds; denomination \$100. Bonds will be purchased by sinking fund.

S. C., Greenville.—Bids will be received until 8:30 P. M. May 9 for \$100,000 of 5 per cent, street-improvement bonds; denomination \$1000. Address A. E. Sussex, City Clerk and Treasurer.

S, C., Leesville.—Bids will be received until May 1, it is reported, by D. A. Quattlebaum, clerk Board of Trustees, for \$6000 of 6 per cent. refunding and school-improvement bonds; denomination \$500.

8. C., Prosperity.—April 18, it is reported, an election is to be held to vote on \$3000 of 5 per cent, bonds for the retirement of outstanding bonds of Prosperity School District.

S. C., Spartanburg.-J. B. Lee, Mayor, will, it is reported, receive bids until noon May 1 for \$11,000 of 4½ per cent. 20-year refunding bonds.

C., Yorkville,—Official: Bids will be received until noon April 25 for \$60,000 of Catawba township and \$14,400 of Ebenezer town

ship 5 per cent. 15-30-year bonds; dated May 1, 1911; maturity May 1, 1941. Address A. I. Wallace, clerk of Board. T. W. Boyd is 8upervisor of York county.

S. C., St. Matthews.—April 12, it is reported, an election is to be held to vote on \$20,000 of bonds for the purpose of aiding Calhoun county in erecting public buildings, including courthouse and jail.

Tenn., Cleveland.—Bradley county, according to press dispatches, proposes to issue \$16,000 of bridge, also school bonds.

Tenn., Chattanooga.—An official letter confirms report that a bill is to be introduced in the Legislature asking authority to issue bonds.

Tenn., Cookeville.—Official: April 8 election will be held to vote on \$100,000 of the per cent. 30-year Putnam county road construction bonds: denomination \$1000: dated April 1, 1911: maturity April 1, 1911. Jas. X. Cox is secretary Good Roads Commission.

Tenn., Dayton. — Press dispatches state that a bill is to be introduced in the City Council providing for an election within 69 days to vote on not exceeding \$25,000 of 5 per cent. 38-year water-works bonds; denomination \$100 and multiples thereof.

Tenn., Memphis.—A bill is reported introduced in the State Senate giving authority to hold an election to vote on \$1,000,000 of bonds, or as much thereof as may be necessary, for establishing or purchasing a municipal lighting plant. The bonds will be 30-year 4½ per cents.

Tenn., Memphis.—A bill is reported prepared providing for the issuing of \$300,000 of park bonds.

Tenn., Nashville.—Official: A. B. Leach & Co., Chicago, Ill., purchased March 22 the \$500,000 of 4½ per cent. 30-year trunk-sewer bonds; denomination \$1000; dated January 1, 1910; maturity January 1, 1940. Address W. L. Murray, City Recorder.

Tex., Archer City.—Official: Voted: \$12,000 of 6 per cent. 40-year water-works bonds; denomination \$500; date of opening bids not yet decided. Address W. C. Young, Mayor,

Tex., Austin.—The Attorney-General has approved securities as follows: \$75.000 of 5 per cent. 29-10-year Jefferson county road bonds; \$20,000 of 5 per cent. 20-year bonds of Hidalgo county common school district No. 2.

Tex., Beeville.—Reported sold: \$30,000 of sewer bonds.

Tex., Bay City.—Press dispatches state that the following districts of Matagorda county are planning to hold elections to vote on school bonds: No. 21, about \$1200; No. 13, \$3500; No. 17, \$10,000; No. 18, \$2500, and No. 3, \$500.

Tex., Blessing.—Reported voted: \$14,000 of bonds of common school district No. 11.

Tex., Brady.—Reported voted: \$40,000 of 5 per cent. 10-40-year water-works bonds.

Tex., Bridgeport.—Reported voted: \$29,000 of school bonds.

Tex., Cameron.—Press dispatches state that the First National, the Citizens' National and the Cameron State Bank have each taken \$5000 of the \$15,000 of 6 per cent, sewerage bonds.

Tex., Comanche.—Reported defeated: \$100.000 of road bonds of Precinct No. 1, Comanche county. Another election will probably be called.

Tex., Crockett.—Official: April 25 election will be held to vote on \$150,000 of 5 per cent 29-19-year bonds of Road District No. 3, Houston county; denomination \$1000. E. Winfree is County Judge.

Tex., Eagle Lake.—Reported that an election is to be held to vote on \$30,000 of water works plant and sewerage-system bonds.

Tex., Farmersville.—Official: Voted February 14: \$20,000 of 5 per cent. 40-year public free school building bonds; denomination \$500; dated May 1, 1911. Address J. P. Huddleston, Mayor.

Tex., Frisco.—Reported voted: \$13,500 of independent school district bonds.

Tex., Flatonia.—C. E. Mesesta, City Clerk, will, It is reported, receive bids until noon April 15 for \$12.500 of 5 per cent. 10-46-year school bonds.

Tex., Fort Worth.—Official: The \$2,000,000 of 5 per cent. 20-40-year bonds voted January 13, 1911, were purchased by the Commerca Trust Co. and associates, Kansas City, Mo. Bonds are for following purposes: Waterworks, \$1,500,000; storm sewer, \$120,000; street improvements, \$165,000; fire stations and police stations, \$130,000; light extension, \$50,000; city warehouse, \$15,000; denomination \$1000; dated April 1, 1911; maturity April 1, 1951.

[For Additional Financial News, Sec Page 94.] The Merchants National Bank

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DOUGLAS H. THOMAS, President,
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Capital, \$1,000,000
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CHICAGO

W. J. Glivin is Commisioner of Finance and Revenue, Fort Worth.

Tex., Georgetown.—Reported voted: \$100,

Tex., Goliad.—The question of issuing \$50,-000 of Goliad county good-roads bonds is reported under consideration.

Tex., Goldthwaite.—April 25, it is stated, an election will probably be held to vote on \$50,000 of road-building bonds of Precinct No. 1, Mills county. Address Commissioners'

Tex., Groveton.-Reported defeated: \$55,000

Tex., Kountz.—Official: W. A. Myrick purchased March 13 the \$135,000 of 5 per cent.
29-year bonds of road districts Nos. 2 and 3,
Hardin county; denomination \$1000; dated
April 10, 1911; maturity April 10, 1931. Address County Commissioners.

Tex., Lampasas. - Reported voted: Lamnasas county bridge bonds

Tex., Lampasas. – Reported voted: Lam-asas county bridge bonds.

Tex. Lockhart.—Reported voted: \$50,000 of Caldwell county good-roads bonds

Tex., Maxwell.—The State school fund is reported to have purchased \$4000 of 5 per cent. 20-year independent school district bonds at par.

Tex., McGregor.—Reported voted: \$15,000 of high-school building bonds.

Tex., Memphis.—Reported voted: \$25,000 of and bonds of Precinct No. 1, Hall county.

Tex., Memphis.—Reported voted: \$25,000 of oad bonds of Precinct No. 1.

Tex., Orange.—Press dispatches state that an election will probably soon be held to vote on \$43,000 of channel-improvement bonds.

Tex., Petty.—Official: April 29 an election is to be held to vote on \$12,000 of 5 per cent. 19-40-year school building and equipping bonds; denomination \$500. Address A. Collier, president Board of Trustees, Petty Independent School District.

Tex., Roscoe. - Reported voted: Water rks bonds.

Va., Boydton.—Reported that the Circuit Court of Mecklenburg county is to be peti-tioned by the residents of South Hill district to call an election to vote on good-roads

Tex., Waxahachie.—An official letter says that \$15,000 of 5 per cent, 20-year school-building bonds will be purchased by the sinking funds of the city; denomination \$1000; dated March 21, 1911. J. Gammon is president of the School Board.

Tex., Wichita Falls.—Reported voted: \$15, 600 of Wichita county bridge bonds. W. A. Reid is County Clerk.

Reid is County Clerk.

Va., Chase City.—Reported that the First
National Bank of Chase City has been
awarded \$15,000 of 6 per cent. bonds for erection of electric-light plant; maturity, 1924.

Va., Colonial Beach.—Reported that the
\$37,000 of 6 per cent. 25-year sewerage bonds
will soon be put on the market. H. W. B.
Williams is Mayor and J. O. Heflin Clerk.

Va., Denbigh.—Press dispatches state that on April 10 school bonds of Denbigh district, Warwick county, will be sold.

Hampton.-Official: The First Na Va., Hampton.—Official: The First Na tional Bank of Hampton has been awarded the \$14,000 of 5 per cenf. Elizabeth City county refunding bonds; denomination \$1000; dated July 1, 1911; maturity one bond each year, beginning July 1, 1916. Press reports state the bonds sold at \$300 premiam. H. H.

Holt is clerk.

Va., Marion.—Official: May 2 an election is to be held in Smyth county to vote on \$250,000 of 6 per cent. 30-year bonds for macadamizing and otherwise improving public roads in county; denomination \$100 or multiple of the county of the co tiple thereof. Address Chairman Board of

Va., Norfolk. — Ordinances are reported passed providing for the sale of \$690,000 of 4½ per cent. 30-year street-paving bonds.

Va., Victoria.-Reported voted: \$9000 of high-school building bonds.

high-school building bonds.

W. Va., New Martinsville.—Official: April 19 an election is to be held in Harrison county to vote on \$100,000 of 5 per cent. 10-34-year bonds to aid in construction of Clarksburg Northern Railroad from New Martinsville to Middlebourne, W. Va. Address T. M. Jackson, Clarksburg.

Va., Romney.-Official: Voted: \$15,000 o! 5 per cent, 20-year water-works bonds; nomination, \$100 or multiple thereof. Bids for same will be opened first Monday in

Address A. N. McKeever, Mayor, or C. W. Haines, Rec

At Pittsboro, N. C., bids will be received until 2 o'clock May 5 for \$5000 of 5 per cent. 30-year street-improvement bonds. Further particulars will be found in the advertising

At Yorkville, S. C., bids will be received until noon April 25 for \$60,000 of Catawba township and \$14,400 of Ebenezer township. York county, 5 per cent. bonds. Further par-ticulars will be found in the advertising

FINANCIAL NOTES.

The Oklahoma Bankers' Association will neet at Oklahoma City May 24 and 25.

The Nixon State Bank at Nixonville, Tex. has, according to press dispatches, increas its capital from \$25,000 to \$40,000.

The Central Loan & Investment Co., Waco, Tex., is reported to have increased its capital from \$25,000 to \$100,000.

The First State Bank, Alba, Tex., It is reported, is increasing its capital from \$10,000 to \$25,000.

The Citizens' Bank of Bristol, Tenn., is r ported to have merged with the First National Bank of Bristol.

The People's Bank of Marion, S. C., is re authorized to increase its capital from \$20,000 to \$25,000.

The Citizens' Bank of Vidalia, Ga., it is reported, proposes to from \$25,000 to \$50,000. es to increase its capi

The Metropolitan Bank, New Orleans, La. according to press dispatches, is doing but the corner camp and Poydras Sts.

The Interstate Trust & Banking Co. of New Orleans, La., according to press dis-patches, has purchased the People's Bank & Trust Co.

The Western National Bank of Fort Worth, Tex., has increased its capital from \$300, to \$400,000. W. H. Eddleman is president and O. P. Haney cashier.

The Mercantile Trust & Deposit Co. of Bal-The Mercantile Trust & Deposit Co. of Baltimore, Md., has published its 1911 booklet descriptive of its system of issuing letters of credit to foreign travelers. The company has \$1,500,000 capital and \$3,000,000 surplus. A. H. S. Post is president; Wilton Snowden, vice-president; J. R. Walker, second vice president; John McHenry, treasurer; T. H. Fitchett, secretary and treasurer, and C. I. Reynolds, assistant secretary.

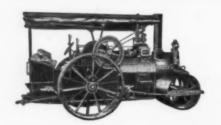
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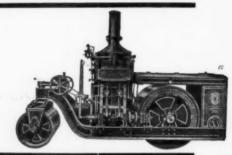
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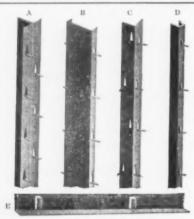
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